

Thermometer

Digital Thermometer

TES-1319 Thermometer

**Features**

- Switchable Resolution 0.1°/1°
- With °C & °F switching
- MAX/MIN Function
- Data Hold Function

Technical Specifications

Range	: -50°C ~ 1350°C
Sensor	: K Type Thermocouple
Accuracy	: -50°C ~ 199.9°C ... ± (0.3%rdg + 1°C) -50°C ~ 1000°C ... ± (0.5%rdg + 1°C) 1001°C ~ 1300°C ... ± (0.75%rdg + 1°C)
Resolution	: -50°C ~ 199.9°C 0.1°C (others 1°C)

Ref. No : TS18 B001

Model : TES 1319

TES-1311 /1312



TES 1311



TES 1312

Features

- Switchable Resolution 0.1°/1°
- With °C & °F switching
- MAX/MIN Function
- Data Hold Function
- Room Temperature Compensated
- Backlight LCD display
- T1 & T2 dual points display (TES 1312)
- T1-T2 differential measurement (TES 1312)
- Relative /AVG (TES 1312A)

Technical Specifications

Range	: -50°C ~ 1350°C
Sensor	: K Type Thermocouple -200°C ~ 1370°C (TES 1312A)
Input	: Single Channel (TES-1311) / Dual Channel (TES-1312/1312A)
Resolution	: -50°C ~ 199.9°C 0.1°C -200°C ~ 199.9°C 0.1°C (TES 1312A) (Others 1°C)

Accuracy

TES-1311	: -50°C ~ 1350°C ... ± (0.1%rdg + 1°C)
TES-1312/1312A	: -50°C (-200°C) ~ 1000°C ... ± (0.3%rdg + 1°C) 1000°C ~ 1300°C (1370°C) ... ± (0.5%rdg + 1°C)

Ref. No
TS18 B002
TS18 B003
TS18 B004

Model
TES 1311
TES 1312
TES 1312A

TES-1313/1314 K,J,E,T,R,S,N Thermometer



Ref. No : TS18 B005
Model : TES 1313



Ref. No : TS18 B006
Model : TES 1314

Features

- Highly accurate thermometer with thermocouple K,J,E,T,R,S,N type.
- Dual input function T1/T2 temperature display. (1314)
- Warning beeper with HI/LO setting.
- MAX/MIN with TIME, MAX-MIN AVG, HOLD function.
- °C / °F / K User-Selective.
- Back-Light LCD display.

Technical Specifications

Range :	
K-Type	: -200°C to +1372°C
J-Type	: -210°C to +1200°C
E-Type	: -150°C to +1000°C
T-Type	: -250°C to +400°C
R-and S-Type	: 0°C to +1767°C
N-Type	: -200°C to +1300°C
Display resolution	: 0.1°C / °F / K < 2000°, 1.0°C / °F / K 2000°
Accuracy	: K,J,E,T, and N-Type : ± [0.05% of reading +0.3°C] Add 0.15% of reading for K-,J-,E-,N-Type; and 0.45% of reading for T-Type, R-S-Type : ± [0.05% of reading+0.4°C]

TES-1315/1316 Datalogger Thermometer

Ref. No : TS18 B007
Model : TES 1315



Ref. No : TS18 B008
Model : TES 1316

Features

- Highly accurate thermometer with thermocouple K,J,E,T,R,S,N type.
- Dual input function T1/T2 temperature display. (1316)
- MAX/MIN with TIME, MAX-MIN AVG, HOLD function.
- 7500 Datalogging capacity.
- Warning beeper with HI/LO setting.
- °C/ °F / K User-Selective.
- Back-Light LCD display.

Technical Specifications**Range :**

K-Type : -200°C to +1372°C

J-Type : -210°C to +1200°C

E-Type : -150°C to +1000°C

T-Type : -250°C to +400°C

R-and S-Type : 0°C to +1767°C

N-Type : -200°C to +1300°C

Display resolution : 0.1°C / °F / K < 2000°

resolution : 1.0°C / °F / K < 2000°

Accuracy : K,J,E,T, and N-Type : ± [0.05% of reading + 0.3°C]
Add 0.15% of reading for K-,J-,E-, N-Type;
and 0.45% of reading for T-Type ,
R-,S-Type : ± [0.05% of reading + 0.4°C]

TES-1317/1318 Platinum RTD Thermometer

Ref. No : TS18 B009
Model : TES 1317



Ref. No : TS18 B010
Model : TES 1318

Features

- Pt 3916/3926/385 RTD standard.
- Dual input function T1/T2 temperature display. (1318)
- 7500 Datalogging capacity. (1317)
- Warning beeper with HI/LO setting.
- Time setting.
- MAX/MIN with TIME, MAX-MIN AVG, HOLD function.
- °C/ °F / K User-Selective.
- Back-Light LCD display.

Technical Specifications

Range : -200 ~ 800°C

Resolution : 0.1°C / 0.1°F / 0.1K

Accuracy : ± (0.05% rdg + 0.2°C)

TES-1304 Printing Thermometer / TES-1305 Data Logger Thermometer

Ref. No : TS18 B011
Model : TES 1304



Ref. No : TS18 B012
Model : TES 1305

Features

- Type K,J,E,T. Thermocouple input.
- Dual channels with multi-functions (T1,T2& T1-T2) & Scanner.
- Built-in thermo printer with programmable time interval setting. (TES 1304)
- Datalogging (7000), RS-232 interface & software. (TES 1305)
- Real time clock with calendar for time interval setting (TES 1305)
- 0.05% of reading high Accuracy & MAX/MIN/AVG display

Technical Specifications**Range :**

Type K : -200 ~ 1333°C

Type J : -200 ~ 760°C

Type E : -200 ~ 703°C

Type T : -200 ~ 400°C

Resolution : 0.1°C/0.1°F

Accuracy : Type K : ±(0.01%rdg+0.5°C)/0~1333°C

Type J : ±(0.01%rdg+0.5°C)/0~760°C

Type E : ±(0.01%rdg+0.5°C)/0~703°C

Type T : ±(0.01%rdg+0.5°C)/0~400°C

Type K/J/E/T : ±(0.05%rdg+0.7°C)/-200~0°C

Sampling rate : 1 time / sec

Battery life : Approx. 30 hours.

Approx. 70 hours. (except printing & beeper)

Thermometer

Thermometer Multi-Channel - TM 200



Ref. No : KI18 B021
Model : TM 200

Features

- Display of 4 parameters
- Interchangeable Smart Pro probes
- Display of calibration date
- 4-channels thermometer
- Data-logging - 8000 readings
- PC and printer interface (USB)
- Hold, min. and max. values, standard deviation

Technical Specifications

	2 channels Pt100 temperature	2 channels thermocouple K
Measuring Ranges	-100°C ~ +400°C	-200°C ~ -40°C -39°C ~ +999°C +1000°C ~ +1300°C
Accuracy	±2% of reading ± 0.1°C	±1% of reading ± 1.2°C ±0.3% reading ± 0.8°C ±1% reading ± 1.2°C
Resolutions	0.1°C	0.1°C 0.1°C 1°C

Thermocouple Probe



NR-30



NR-41



NR-32A



NR-33B



NR-37



NR-31A



NR-35A

Technical Specifications

Probes	Ref. No	Model	Range
General Purpose	SJ18 AT01	NR-30	-50°C ~ +700°C
Penetration Probe	SJ18 AT02	NR-41	-50°C ~ +800°C
Straight Surface Probe	SJ18 AT03	NR-32A	-50°C ~ +500°C
Right-Angle Surface Probe	SJ18 AT04	NR-33B	-50°C ~ +400°C
High Temperature Surface Probe	SJ18 AT05	NR-37	-50°C ~ +800°C
Short Stem Surface Probe	SJ18 AT06	NR-31A	-50°C ~ +500°C
Roller Surface Probe	SJ18 AT07	NR-35A	-50°C ~ +400°C

TH 100/TH 101 Digital Stem Thermometer



Ref. No
RD18 B013
RD18 B014

Model
TH 100
TH 101

Applications

- Food processing
- Brewing
- Photography
- Refrigeration
- Laboratory
- Automobile
- Agriculture
- Pharmaceutical

Features

- Max/Min temperature memory
- Celsius and Fahrenheit exchange
- Fast temperature response
- Data hold function
- Automatic shut off
- Stainless steel probe
- Splash proof
- Never need calibration

Technical Specifications

Measurement range : -50 to 200°C

Accuracy :

±1°C between -50 to 150°C otherwise ±2°C

Resolution :

0.1°C between -19.9° to 199.9° otherwise 1°

Sampling rate : Every 0.7 second

TES 1321A Infrared Thermometer / TES 1322A Infrared & Type K Thermometer



Ref. No
TS18 B015
TS18 B016

Model
TES 1321A
TES 1322A

Features

- °C / °F Selectable.
- Back-light LCD display.
- Laser targeting.
- Auto-power off.
- Auto-Hold function.
- MAX/MIN reading (TES1321A)
- Emissivity adjustable (TES-1322A)
- Audible and visible alarm (TES-1322A)
- Thermocouple input K (-50°C ~ 1370°C) (TES-1322A)
- Data memory and read function 20 sets (TES 1322A)

Technical Specifications

Ref. No	TS18 B015	TS18 B016
Model	TES 1321A	TES 1322A
Range	-20°C ~ 400°C	-20°C ~ 500°C
Resolution	0.1°C / 1°C	0.1°C / 1°C
Accuracy	± 2% reading or ± 2°C	
Spectral Response	6 ~ 14μm	
Field of view	8:1 optics ratio with a 1" min target	
Emissivity	Pre-set 0.95	0.1 ~ 1.0
Measurement Rate	2.5 times/second	1 time/second

TES 1326/1327 Infrared Thermometer



Features

- °C / °F Selectable.
- Back-light LCD display.
- Laser targeting.
- Emissivity adjustable. (1327)
- Audible and visible alarm. (1327)
- Data memory and read function (1327)
- Maximum / Minimum function. (1327)

Technical Specifications

- Range** : -20°C ~ 500°C
- Resolution** : 0.1°C/ 1°C
- Accuracy** : ±2% reading or ±2°C
- Spectral response** : 6 ~ 14μm
- Field of view** : 8:1 optics ratio with a 1" min target
- Emissivity** : (TES 1326 : fixed 0.95)
(TES 1327 0.1 ~ 1.0)
- Data memory capacity** : 99 sets (1327)

Ref. No
TS18 B017
TS18 B018

Model
TES 1326
TES 1327

Temperature Datalogger

Prova 69 Temperature Logger



Features

- Real Time Clock / Calendar
- Programmable Hi-Lo Limits
- Rs-232 PC interface
- Button and LEDs (Green and Red) to Check Status
- Recorded long-term temperature histogram
- Many security features to prevent man-made false data.

Technical Specifications

- Range** : -40 to 85°C
- Resolution** : 0.5°C
- Accuracy** : ± 1°C
- Sampling time** : 1 to 255 Minutes
- Memory size** : 2048 records
- Battery Life** : 10 years

Ref. No : TS18 B019
Model : Prova 69

Temperature Datalogger

Curve-X2



Ref. No : TQ18 B020
Model : Curve-X2

Features

- Large display for easy menu-driven operation.
- Start and stop logging at a pre-set time, date and temperature.
- Programmable (via PC) for up to 15 paint-types, for accurate calculation of the cure-index.
- If a paint-type is not available in the library, it can be entered in the logger on site.
- Displays the results of every stored batch, including cure-index.
- Extended memory stores 10 batches of 25,000 measurements each.
- Extendable : optional add-on to convert the 6 channel datalogger into a 12-channel systems

Flexible Evaluation

Quick display : The logger display shows maximum temperature and cure-index figure, percentage and pass/fail sign, or graphic per probe.

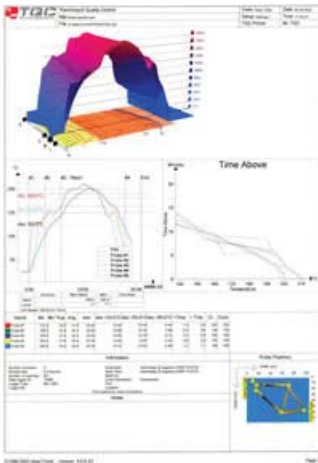
Extensive analysis : For extensive analysis, comprehensive calculations and fully customizable reports every system is supplied with powerful "ideal finish" data analysis software.

Wireless print : The optional TQC irp portable infrared printer can print (wireless) a brief report including cure-index, maximum temperature and graphs.

Logger to printer : A complete, full-colour report can be printed directly to any HP-Deskjet printer using the optional printer-link. No computer required!

Flexible Software

- Create and store oven-layout and oven settings
- Create your own paint-library, complete with cure specifications
- Choose from more than 30 different calculations
- Set your own parameters to create an "Ideal Cure Window"
- Send your reports by e-mail with a single mouse-click
- Insert a picture of your product and have your probe position calculated automatically.
- Complete with automatic position-lag compensation.
- Create professional reports and documentation in your own style



A complete range of probes

- Magnet surface probe
- Clamp-type surface probe
- Ring-type surface probe : Universal probe with aluminium ring at the tip for fast response
- Air probes : Available with either clamp or magnet.
- Wire-type probe :
- Universal probes that can be used for either air or surface temperature measurements, attached by adhesive tape or other mechanical means
- Infrared probes : The infrared probes are designed to profile the IR-radiance inside an oven.



Ref. No	Model	Cable length (cm)	Cable type	Application	Probe type	Max. T.
TQ18 C001	CX2020/21/22	150/300/500	Teflon	Air	Clamp	300°C
TQ18 C002	CX2069/68	150/300	Teflon	Air	Magnetic	300°C
TQ18 C003	CX2030/40/41	150/300/500	Teflon	Surface	Clamp	300°C
TQ18 C004	CX2050/60/62	150/300/500	Teflon	Surface	Magnetic	300°C
TQ18 C005	CX2065/66/72	150/300/500	Teflon	Universal	Ring Ø6 mm	300°C
TQ18 C006	CX2063/64/67	150/300/500	Teflon	Universal	Wire	300°C
TQ18 C007	CX2055/56	150/300	ss braided lead	Surface	Magnet	480°C
TQ18 C008	CX2048/49	150/300	ss braided lead	Surface	Clamp	480°C
TQ18 C009	CX2085/86	150/300	ss braided lead	Universal	Ring Ø6 mm	480°C
TQ18 C010	CX2023/24	150/300	ss braided lead	Air	Clamp	480°C
TQ18 C011	CX2090/91/92	150/300/500	Inconel tube	Universal	Ring Ø6 mm	1000°C
Infrared probes						
TQ18 C012	CX2095	150	ss braided lead	"Surface"	Clamp	480°C
TQ18 C013	CX2096	150	ss braided lead	"Surface"	Magnet	480°C
TQ18 C014	CX2097	150	ss braided lead	"Air"	Clamp	480°C



Other boxes for special applications are available on request :

Teflon box,
Slimline box,
High-Temp box.

Specifications standard box and heatsink :

Dimension : Height 140mm,
Width 225mm,
Length 255+30mm (handle)

Weight : 4200 gram

°C minute
150 250
200 200
250 140
300 60

Technical Specifications

Channels : 6 or 12 with "add on" unit

Range : -50°C to +1200°C / -58°F to +2200°F

Accuracy : ± 0.3°C / 0.6°F

Resolution : 0.1°C / 0.2°F

Interval : From 1 sec. to 1 hour

Memory : 10 batches of 25000 readings each

Batteries : 3 pcs. 1.5V AA-type

Curve-X2 Accessories

Add-on Pack



Optional add-on to convert the 6 channel datalogger into a 12-channel system.

Ref. No : TQ18 AA01

Model : Add-on Pack

CX-PM Printer Module



A complete, full-colour report can be printed directly to any HP-Deskjet printer using the optional printer-link. No computer required.

Ref. No : TQ18 AP01

Model : CX-PM

TQC-IRP



The optional TQC IRP portable infrared probe can print (wireless) a brief report including Cure-index, maximum temperature and graphs.

Ref. No : TQ18 AP02

Model : TQC-IRP

Temperature Datalogger

Temperature Datalogger



Features

- Multi External Sensor for Temperature/Current/Voltage/Ammeter Clamp
- Storage 16000 to 32000 measurement points
- Logging time : 15mn to 1 year
- Mixed switch-on (both button and delayed)
- Data import into graphics spreadsheet (Excel...)

Technical Specifications

Internal sensor and connector for external sensor (according to model)

Resolutions	: 0.234°C from -10 to +50°C
	0.45°C from -20 to +70°C
	0.625°C from -20 to +90°C and from -40 to +120°C
Accuracy	: 0.5%
Operating temperature	: -20 to +70°C

Ref. No	Model	Memory Capacity (nb of measure points)		Measurement Range of the internal sensor -20 to +70°C	Channel(s) and Measurement range for the external sensor(s) -40 to + 120°C
		16000 pts	32000 pts		
KI18 B022	KT-0	•		•	-
KI18 B023	KT-1	•		•	1
KI18 B024	KT-2		•	•	2
KI18 B025	KT-4		•	•	1

Hygro-Thermometer

RT811 Hygro-Thermometer Jumbo Display RT811E - External Sensor



Features

- Jumbo display for humidity, temperature
- Maximum & Minimum Reading Memory
- °C / °F Exchange
- Foldaway stand
- Mounting keyhole

Technical Specifications

Measuring range	: 20 ~ 99% 0~50°C (indoor), -50~70°C (outdoor)
Display accuracy	: ±3%, ±1°C
Display resolution	: 1%, 0.1°
Display reading update	: 10 seconds
Accessories	: Outdoor sensor with 3 meters long sensor cord x 1 piece (RT811E only) Sensor holder x1 piece (RT811E only)

Ref. No	Model
RD18 C001	RT811
RD18 C002	RT811E

Whirling Hygrometer (P2520 - Mercury, P2528 - Red Spirit)



Whirling Hygrometer is housed in a robust plastic frame with folding handle the instrument incorporates a water cistern linked to 'wet' bulb by a means of a cotton sleeve. It produces wet and dry bulbs readings that will be used to tabulate value of relative humidity by using a conversion chart.

Technical Specifications

Range :	
R.H.	: 1 TO 99%RH,
Temp.	: -5 to +50°C

Ref. No	Model
ZE18 C003	P2520
ZE18 C004	P2528

TES 1367 Hygro-Thermometer**Features**

- Dual LCD display
- Dew Point Reading/ Wet Bulb Reading
- MAX/MIN with time stamp
- Data hold function
- °C & °F Switchable
- Auto power off

Technical Specifications**Range -**

Temperature	: -20°C ~ 60°C
Humidity	: 1%RH ~ 99%RH
Resolution	: 0.1°C/0.1%RH
Accuracy	: -
Temperature	: ± 0.8°C
Humidity	: ± 3%RH

Ref. No : TS18 C005

Model : TES 1367

TES 1361 Datalogging Hygro-Thermometer Meter**Features**

- Dual display LCD/Clock
- 7000 data (dual reading RH% & Temp)
- RS-232 interface (software included)

Technical Specifications**Measurement range :**

Humidity	: 10% ... 95% R.H.
Temperature	: -20°C .. +60°C
Resolution	: 0.1% R.H. 0.1°C
Accuracy	: Humidity ±3%R.H. Temperature ±0.8°C

Sampling rate : 1 time per second

Ref. No : TS18 C006

Model : TES 1361

TES 1364/1365 Datalogging Humidity Temperature Meter**Features**

- Dual LCD display with Bargraph indication.
- Dew Point Reading/ wet bulb reading.
- Data Hold & Relative function
- MAX/MIN with time stamp.
- RS-232 interface & windows software. (TES-1365)
- Automatic timer recording 10,100 data for datalogger. (TES-1365)

Technical Specifications**Range:**

Temperature	: -20°C ~ 60°C
Humidity	: 1%RH ~ 99%RH
Resolution	: 0.1°C/ 0.1%RH

Accuracy:

Temperature	: ± 0.8°C
Humidity	: ± 3%RH

Datalogging (TES-1365)

Manual recording	: 99 data sets
Continue recorder	: 9999 data sets.
Sampling rate	: 1 time/sec

Ref. No
TS18 C007
TS18 C008

Model
TES 1364
TES 1365

Hygro-Thermometer

TES 1362 Printing Humidity/ Temperature Meter



Ref. No : TS18 C009
Model : TES 1362

Features

- Triple LCD display for RH% Humidity, T_1 for air temperatures and T_2 type K Thermometer ($-200^{\circ}\text{C} \sim 1333^{\circ}\text{C}$)
- Dew Point Reading
- Max / Min / Data Hold
- Real Time Stamp
- Periodically Print out from Pre-set time interval

Technical Specifications

Measuring range

T_1 : Temperature : $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$
Humidity : 10%RH ~ 95%RH
 T_2 : Type K : $-200^{\circ}\text{C} \sim 1333^{\circ}\text{C}$

Resolution : $0.1^{\circ}\text{C} / 0.1^{\circ}\text{F} / 0.1\%\text{RH}$

Accuracy

T_1 : Temperature : $\pm 0.8^{\circ}\text{C}$
Humidity : $\pm 3\%\text{RH}$
 T_2 : Type K : $-200^{\circ}\text{C} \sim 500^{\circ}\text{C}$, ($0.1\%\text{rdg} + 0.8^{\circ}\text{C}$)
 $500^{\circ}\text{C} \sim 1333^{\circ}\text{C}$, ($0.2\%\text{rdg} + 1.8^{\circ}\text{C}$)

Sampling rate : 1 time/sec

DewCheck 2 (ISO 8502-4)



Ref. No : TQ18 C010
Model : DewCheck 2

Features

- Measures and calculates fast and accurately:
- Relative humidity
- Air temperature
- Surface / steel temperature
- Dewpoint temperature
- DELTA T (difference between surface and dewpoint temperature)
- Display stored datasets directly on the gauge prints wireless to a portable IR-printer (optional) or download to a PC (optional)

Technical Specifications

Air temperature

- Range : -20°C to $+75^{\circ}\text{C}$
- Accuracy : $\pm 0.3^{\circ}\text{C}$,
- Resolution : 0.1°C

Surface temperature

- Range : (Range 1) -30°C to $+60.0^{\circ}\text{C}$
(Range 2) $+60^{\circ}\text{C}$ to 300°C
- Accuracy : (Range 1) $\pm 0.5^{\circ}\text{C}$
(Range 2) $\pm 1.5^{\circ}\text{C}$
- Resolution : (Range 1) 0.1°C
(Range 2) 1°C

Humidity

- Range : 0 to 100% RH
- Accuracy : ± 0.3 RH
- Resolution : 0.1% RH
- Memory capacity : 99 datasets

Quartz Thermo-Hygrograph



Ref. No : HS18 C011
Model : TN-2500NW

Descriptions

Adoption of one rotation recording system makes continuous recording of maximum & minimum temperature & humidity possible. An hourly error is extremely small with adoption of quartz clock driving system. Easy time setting with adoption of quartz clock driving system.

Technical Specifications

Recording period : 1-day & 7-day
Temperature sensor : Bimetal
Humidity sensor : De-fatted hairs
Size : App. 352(W) X 151(D) X 287(H)mm
Weight : App. 3.5kg
Recording range : $-15 \sim 40^{\circ}\text{C}$, 1°C & 0 ~ 100%, 1%
Accuracy : Temp. Within $\pm 0.5^{\circ}\text{C}$, Humi. Within $\pm 3\%$
Standard Accessories : 7-day chart for 1 year use & battery 1.5V 1pc.

Thermo-Hygrometer - HD 200



Ref. No : KI18 C012
Model : HD-200

Features

- Display of 5 parameters
- Interchangeable Smart Pro probes
- Display of calibration date
- 2-channel thermometer
- Data-logging (8000 readings)
- PC and printer interface (USB)
- Hygrometer : relative humidity, absolute humidity, ambient temperature, dew point, Pt100 temp.
- Psychrometer : dry and wet temperature, relative humidity, absolute humidity, enthalpy
- Surface dew point : contact dew point, contact temperature, relative humidity, ambient temperature
- Delta T
- Hold, min. and max. values, standard deviation

Technical Specifications

	Measuring ranges	Accuracy	Resolutions
Relative humidity	3 to 98 %RH	±1% of reading ± 1.5%RH	0.1 %RH
Absolute humidity	0 to 190g/kg	calculated	0.1g/kg
Dew point	-20 to + 80°C	calculated	0.1°C
Ambient temperature	-20 to + 80°C	±2% of reading ± 0.1°C	0.1°C
Pt100 temperature	-100 to + 400°C	±2% of reading ± 0.1°C	0.1°C

KCH 08 Recoder



Ref. No : KI18 C013
Model : KCH 08

Features

- Temperature and humidity recorder :
- Internal sensor
 - Memory capacity : 8000 reading
 - Logging interval : 15min to 1 year
 - Data transfer to spreadsheet (Excel...)
 - Measurement ranges : -20 to + 70°C
25 to 95% RH
 - Absolute humidity and dew point calculation
 - Resolutions : 0.1°C and 0.1%RH
 - Accuracy : ± 0.5°C and ± 3%RH
 - Operating temperature : -20 to + 70°C

KCL 08 Recoder



Ref. No : KI18 C014
Model : KCH 08

Features

- Temperature, humidity, light and voltage recorder :
- Internal sensor and connection for external sensor
 - Memory capacity : 8000 reading
 - Logging interval : 15min to 1 year
 - Data transfer to spreadsheet (Excel...)
 - Measurement ranges : -20 to + 70°C - internal sensor
-40 to + 120°C - external sensor
25 to 95% RH
2 to 600 Lumens
0 to 2.5 Volts
 - Absolute humidity and dew point calculation
 - Resolutions : 0.1°C / 0.1%RH / 2 Lumens / 10mV
 - Accuracy : ± 0.5°C / ± 3%RH / ±2 Lumens / ±10mV
 - Operating temperature : -20 to + 70°C

Moisture Meter

MD-4G Wood Moisture Tester



The instrument is applied for the Water Rate test of wood, fiber, bamboo, cotton, paper, tobacco etc.

Technical Specifications

View mode : light by diode 2 x 10

Measure scope : Type 1 7 ~ 15%
Type 2 16 ~ 35%

Accuracy : ± 1 dgt

Ref. No : AM18 D001

Model : MD 4G

MD-2G Wood Moisture Tester

**Technical Specifications**

Range : 5% ~ 40%

Resolution : 1%

Accuracy : ± 1 %

Power : 9V battery

Display : Digital LCD

Ref. No : AM18 D002

Model : MD 2G

Anemometer

AVM-01/AVM-03 Thermo Anemometer

**Features**

- Sensitive for low/high air velocity
- Ergonomic design
- Detached 52mm (diameter) Vane Head

Technical Specifications

Range : $(\pm 3\% \text{rdg} \pm 0.1)$

Threshold : 0.3 m/s

M/S : 0-45.0

KNOTS : 0-88.0

Ft/min : 0-8800

Km/hr : 1-140.0

Temperature : 0-60 °C (32-140 °F)

Ref. No

TS18 E001

TS18 E002

Model

AVM 01

AVM 03

AVM-05/AVM-07 Flow Anemometer

**Features**

- Flow (CFM, CMM)
- Instant/Ave/ 2/3 Vmas Flow Measurement
- Velocity m/s, ft/min, knots, km/hr, mph
- Memory of 2000 Records (AVM-05/AVM-07)
- RS-232 (AVM-07)

Technical Specifications

Range : $(\pm 3\% \text{rdg} \pm 0.1)$

Threshold : 0.3 m/s

M/S : 0-45.0

KNOTS : 0-88.0

Ft/min : 0-8800

Km/hr : 0-140.0,

Mph : 0-100.0

Wind Temperature : 0-45 °C (32-113 °F)

Display : 2 x 4 Digits Dual Display LCD

Ref. No

TS18 E003

TS18 E004

Model

AVM 05

AVM 07

Vane Anemometer - LV 100 / LV 110



Airflow Cone

To measure air velocity, airflow and ambient temperature.

Features

- Display of 2 parameters simultaneously
- Hold function
- Min. and Max. values

Accessories

- Airflow cone
- Telescopic extension, length 1m bent at 90° for probe

Ref. No

KI18 E005

KI18 E006

Model

LV 100

LV 110

Technical Specifications

	Measuring Units	Measuring ranges	Accuracy	Resolutions
LV 100				
Air velocity	m/s, fpm	0.20 to 3m/s 3.1 to 35m/s	±3% of reading ± 0.1m/s ±3% of reading ± 0.2m/s	0.01m/s 0.1m/s
Ambient temperature	°C, °F, K	-20 to +80°C	±2% of reading ± 0.2°C	0.1°C
LV 110				
Air velocity	m/s, fpm	0.20 to 3m/s 3.1 to 35m/s	±3% of reading ± 0.1m/s ±3% of reading ± 0.2m/s	0.01m/s 0.1m/s
Ambient temperature	°C, °F, K	-20 to +80°C	±2% of reading ± 0.2°C	0.1°C
Airflow	m³/h, l/s, cfm, m³/s	0 to 65,000 m³/h	±3% of reading ± 10m³/h	1m³/h

Hotwire Anemometer - VT 100



To measure air velocity, airflow with cone and ambient temperature.

Features

- Display of 2 parameters simultaneously
- Automatic average
- Hold function
- Min. and Max. values

Accessories

- Hotwire extension / to be clipped / straight or angled, Ø10mm, length 300mm
- Airflow cones : several sizes and ranges of measurement
- Hotwire cleaning spray
- Sealing caps for ducts Ø11.5 to 13mm

Ref. No : KI18 E007

Model : VT 100

Technical Specifications

	Measuring Units	Measuring ranges	Accuracy	Resolutions
Hotwire air velocity	m/s, fpm	0 to 3.0m/s 3.1 to 30m/s	±3% of reading ± 0.05m/s ±3% of reading ± 0.2m/s	0.01m/s 0.1m/s
Airflow with cones	m³/h, l/s, cfm, m³/s	0 to 2,000 m³/h	±3% of reading ± 10m³/h	1m³/h
Ambient temperature	°C, °F, K	-20 to +80°C	±2% of reading ± 0.2°C	0.1°C

Multi-probes - VT 200



To measure air velocity and flow with vane or hotwire and temperature Pt100.

Technical Specifications

Ref. No	KI18 E008	KI18 E009	KI18 E010	KI18 E011	KI18 E012
Model	VT 200F	VT 200T	VT 200H	VT 200L	VT 200P
Vane probe Ø100mm, lg:310mm	O	O	O	X	O
Vane probe Ø70mm, lg:310mm	O	O	X	O	O
Vane probe Ø16mm, telescopic length 720mm	O	O	O	O	X
Hotwire probe Ø8mm, lg:300mm	X	O	O	O	O
Straight extension for hotwire probe	X	O	O	O	O
Graduated telescopic hotwire, Ø10mm, lg:900mm	O	X	O	O	O
PT100 temperature probes	O	O	O	O	O
Printer	O	O	O	O	O
Software for PC	O	O	O	O	O
Transport case	X	X	X	X	X
Calibration certificate	X	X	X	X	X

O - Optional, X - Included

Anemometer

Multifunctions Anemometer - VT 300



To measure air velocity and flow with vane or hotwire, temperature Pt 100 and thermocouple K, hygrometry and tachometry.

Features

- Display of 5 parameters (AMI 300/VT 300)
- Display of 4 parameters
- Interchangeable Smart Pro probes
- Display of calibration date
- 4-channel thermometer (AMI 300/VT 300)
- 2-channel thermometer
- Data-logging (8000 readings)
- PC and printer interface (USB)

Functions

Micro-manometer (AMI 300)

- Autocalibration, system and autozero
- Positive, negative and differential pressure
- Integration of the pressure (0 to 10)
- Point/point average
- Automatic point/point average
- Automatic average
- Air velocity and airflow with Pitot : point/point average, automatic point/point average, temperature balancing, manual or automatic
- Air velocity and airflow with Debimo: automatic average, temperature balancing, manual or automatic
- Airflow with K Factor
- Temperature : thermocouple K (channel C2 in option)

Hotwire Thermo-Anemometer

- Air velocity
- Airflow in ducts and with cones
- Automatic average
- Point/point average
- Automatic point/point average
- Pt100 temperature inside the probe
- Pt100 temperature (channel C2 in option)

Thermometer

- Pt100 temperature : 2 channels, dynamic delta T
- Thermocouple K temperature : 2 channels, dynamic delta T

Accessories

- Airflow cones : several sizes and ranges of measurement (for hot-wire and vane Ø100mm anemometers)
- Debimo airflow blades of many sizes
- Black ball Ø150mm with union for temperature probe Ø 4.5mm
- Telescopic extension, length 1m bent at 90° for probe
- Pt 100 temperature probes :
 - Ambient - lg 150mm from -50 to + 250°C
 - Contact - lg 150mm from - 50 to +400°C
 - Penetration - lg 150mm from -50 to +250°C
 - General Use - lg 150, 200, 500 mm from -50 to +400°C
- Black ball compatible with any thermometer

Multifunctions Anemometer - AMI 300



To measure pressure, air velocity and flow with vane or hotwire, temperature Pt 100 and thermocouple K, hygrometry and tachometry.

Vane Probe Thermo-Anemometer

- Air velocity
- Airflow in ducts and with cones (with Ø100mm vane)
- Automatic average
- Point/point average
- Automatic point/point average
- Pt100 temperature inside the probe (except vane probe Ø 16mm)
- Pt100 temperature (channel C2 in option)

Thermo-Hygrometer (AMI 300/VT 300)

- Hygrometer : relative humidity, absolute humidity, ambient temperature, dew point, Pt100 temp (channel C2 in option)
- Psychrometer : dry and wet temperature, relative humidity, absolute humidity, enthalpy
- Surface dew point : contact dew point, contact temperature, relative humidity, ambient temperature

Tachometer (AMI 300/VT 300)

- Optical revolution counter
- Contact revolution counter

Datalogger

- Multi-parameters recording
- Manual and automatic storage
- Memory : 8000 pts and 40 measuring campaigns
- Simple to use, with printing of customized report
- Management of instrument fleet, and follow-up of the calibration periods.

Specifications

The AMI 300 is a multi-function instrument, compatible with all SMART PRO probes, and with all the thermocouple K temperature probes. The SMART PRO probes are supplied with calibration or adjusting certificate (last calibration date display when connected). They are automatically recognized when connected, and are fully interchangeable.

	Measuring Unit	Measuring Ranges	Accuracy	Resolutions
Micromanometer				
Pressure	mmH ₂ O, mBar, kpa, in wg, mmHG, Pa	0 to ±1000mmH ₂ O	±0.5% of reading ± 1mmH ₂ O	0.1mmH ₂ O
Air velocity with Pitot	m/s, fpm	4 to 30m/s 31 to 100m/s	±3% of reading ± 0.1m/s ±3% of reading ± 0.3m/s	0.1m/s 0.1m/s
Air velocity with Debimo	m/s, fpm	4 to 30m/s 31 to 100m/s	±3% of reading ± 0.1m/s ±3% of reading ± 0.3m/s	0.1m/s 0.1m/s
Airflow with Pitot	m ³ /h, l/s, cfm, m ³ /s	0 to 65000 m ³ /h	±3% of reading ± 10m ³ /h	1m ³ /h
Airflow with Debimo	m ³ /h, l/s, cfm, m ³ /s	0 to 65000 m ³ /h	±3% of reading ± 10m ³ /h	1m ³ /h
Thermo Anemo with Vane				
Vane probe Ø100mm	m/s, fpm	0.20 to 3m/s 3.1 to 35m/s	±2% of reading ± 0.06m/s ±2% of reading ± 0.2m/s	0.01m/s 0.1m/s
Vane probe Ø70mm	m/s, fpm	0.3 to 35m/s	±2% of reading ± 0.1m/s	0.1m/s
Vane probe Ø16mm	m/s, fpm	0.6 to 40m/s	±2% of reading ± 0.1m/s	0.1m/s
Ambient temperature (except vane Ø16 mm)	°C, °F, K	-20 to +80°C	±2% of reading ± 0.1°C	0.1°C
Airflow	m ³ /h, l/s, cfm, m ³ /s	0 to 65000 m ³ /h	±3% of reading ± 10m ³ /h	1m ³ /h
Thermo Anemo with Hotwire				
Hotwire air velocity	m/s, fpm	0 to 3m/s 3.1 to 30m/s	±3% of reading ± 0.03m/s ±3% of reading ± 0.1m/s	0.01m/s 0.1m/s
Telescopic hotwire air velocity	m/s, fpm	0 to 3m/s 3.1 to 30m/s	±3% of reading ± 0.03m/s ±3% of reading ± 0.1m/s	0.01m/s 0.1m/s
Ambient temperature	°C, °F, K	-20 to +80°C	±2% of reading ± 0.1°C	0.1°C
Airflow	m ³ /h, l/s, cfm, m ³ /s	0 to 65000 m ³ /h	±3% of reading ± 10m ³ /h	1m ³ /h
Thermo Hygro				
Humidity	%RH, g/kg	3 to 98%RH	±1% of reading ± 1.5%RH	0.1%RH
Dew point	°C, °F, K	-20 to +80°C	±2% of reading ± 0.1°C	0.1°C
Ambient temperature	°C, °F, K	-20 to +80°C	±2% of reading ± 0.1°C	0.1°C
Thermometer				
Pt100 temperature (2 channels)	°C, °F, K	-10 to +400°C	±2% of reading ± 0.1°C	0.1°C
Thermocouple K** (2 channels)	°C, °F, K	-200 to -40°C -39 to +999°C +1000 to +1300°C	±1% of reading ± 1.2°C ±0.5% of reading ± 0.8°C ±1% of reading ± 1.2°C	0.1°C 0.1°C 1°C
Tacho				
Optical	tr/min, rpm, m/min, ft/min, ln/min	60 to 50000 tr/min	±0.5% of reading ± 1tr/min	1tr/min
Contact		4 to 2500 m/min 30 to 20000 tr/min	±2% of reading ± 1m/min	0.1m/min 1tr/min

** The thermocouple K probes are not part of SMART PRO probes.

Technical Specifications

Ref. No	KI18 E013	KI18 E014	KI18 E015	KI18 E016	KI18 E017
Model	VT 300 PRO	VT 300STD	VT 300	AMI 300 STD	AMI 300
Pressure sensor 0 to ±1000mmH ₂ O				X	X
Pitot tube Ø6mm, length 300mm				X	X
Vane probe Ø100mm, length:310mm	X	O	O	O	O
Vane probe Ø70mm, length:310mm	O	X	O	X	O
Vane probe Ø16mm, telescopic length 720mm	O	O	O	O	O
Hotwire probe Ø8mm, lg:300mm	O	X	O	X	O
Telescopic hotwire graduated, Ø10mm, length 900mm	O	X	O	X	O
Hygrometry probe Ø13mm, length 110mm	X	O	O	O	O
Pt100 temperature probes	X	X	O	X	O
Thermocouple K temperature probes	O	O	O	O	O
Optical tachometry probe Ø17mm, length 195mm	O	O	O	O	O
Contact tachometry probe length 200mm	O	O	O	O	O
Printer	O	O	O	O	O
Software for PC	O	O	O	O	O
Silicone tube 2x1m + stainless steel tip Ø6mm, length 100mm	O	O	O	X	X
Transport case	X	X	X	X	X
Calibration certificate	X	X	X	X	X

Anemometer

Airflow Hot-wire - DBM 200



Ref. No : KI18 E018
Model : DBM 200



Measuring in the horizontal plane with the optional 300x300 mm, optional telescopic extension handle to measure flow from high level grilles and diffusers.

The DBM 200 air flowmeter has been designed to measure the airflow through air conditioning system, grilles and diffusers. The hot-wire is evenly distributed over the whole of the cross section of the cone. The cone's shape was developed in a wind tunnel, to limit its resistance, making it particularly suitable for direct air flow measurement in HVAC systems.

Features

- Accurate air flow measurement
- Accurate : $\pm 2\%$ of reading $\pm 2\text{m}^3/\text{h}$ from 0 to $40\text{m}^3/\text{h}$
 $\pm 2\%$ of reading $\pm 5\text{m}^3/\text{h}$ from 40 to $300\text{m}^3/\text{h}$
- 2 flow ranges : from 0 to $40\text{m}^3/\text{h}$ (green scale)
from 40 to $300\text{m}^3/\text{h}$ (red scale)
- 200x200mm cone can be converted to 300x300mm with optional hood

Flowmeter - DBM 700



Ref. No : KI18 E019
Model : DBM 700



The standard DBM 700 is supplied with a 700 x 700 mm hood, accessories, calibration certificate, in a protective carrying case.

Principle of Operation

The airflow is sampled by 30 sensing points evenly positioned over the flow area, thus delivering the mean air velocity to the hot-wire sensing element and thermal compensator at the centre of the instrument, where the flow is measured.

Functions

- Simultaneous measurement of airflow and temperature
- Measurement of air delivery or exhaust
- Automatic averaging and point by point averaging
- HOLD reading function
- Choice of measurement units (m^3/h , cfm, l/s)
- RS 232 interface to download data, to PC, for further analysis
- 6 interchangeable hoods available : 500x500mm, 700x700mm, 400x1200mm, 700x1200mm, 400x1500mm, 1000x1000mm
- Quick and simple hood changes, no disturbance to the flow
- Reliable and robust yet light and easy to handle
- HOLD function, data recorder capable of storing 2000 readings

Technical Specifications

	Range	Accuracy	Resolution
Airflow	85 to $4000\text{m}^3/\text{h}$	3% of reading $\pm 10\text{m}^3/\text{h}$	$1\text{m}^3/\text{h}$
Temperature	0 to 50°C	2% of reading $\pm 0.1^\circ\text{C}$	0.1°C

Micromanometer

To measure differential pressure and air velocity with Pitot tube.

Features

- Display of 2 parameters simultaneously
- Positive, negative and differential pressure
- Autozero
- Hold function
- Min., Max. value
- Air velocity with Pitot tube (MP120)

Accessories

- Straight connection, in T and Y for tube Ø5 x 8 mm
- Sealing caps for ducts Ø11.5 to 13mm
- Pitot tube available in many lengths Ø3/6 or 8mm, with or without temperature compensation

Technical Specifications

Ref. No	Model	Measuring Units	Measuring Range	Accuracy	Resolution
KI18 F001	MP100*	Pa, mmH ₂ O, In Wg	0 to ± 1000Pa	±2% of reading ± 1Pa	1Pa
KI18 F002	MP101*	KPa, mmH ₂ O, In Wg, mBar, mmHG	0 to ± 1000mmH ₂ O	±2% of reading ± 1mmH ₂ O	0.1mmH ₂ O from 0 to ±199.9mmH ₂ O 1mmH ₂ O above
KI18 F003	MP102	KPa, In Wg, mBar, mmHG, PSI	0 to ± 200mBar	±0.5% of reading ± 1mBar	1mBar
KI18 F004	MP105	KPa, In Wg, mBar, mmHG, PSI	0 to ± 500mBar	±0.7% of reading ± 1mBar	1mBar
KI18 F005	MP110	KPa, In Wg, mBar, mmHG, PSI, Bar	0 to ± 1000mBar	±1% of reading ± 1mBar	1mBar
KI18 F006	MP112	KPa, In Wg, mBar, mmHG, PSI, Bar	0 to ± 2000mBar	±1% of reading ± 1mBar	1mBar
KI18 F007	MP120				
	Pressure	Pa, mmH ₂ O, In Wg	0 to ± 1000Pa	±2% of reading ± 1Pa	1Pa
	Air velocity with Pitot	m/s, fpm	2 to 40 m/s	±3% of reading ± 0.1m/s	0.1m/s

* comes with stainless steel tip Ø6 x 100mm

Micromanometer - Multi Probes

Ref. No
KI18 F008
KI18 F009

Model
MP200
MP202

To measure differential pressure, air velocity, airflow and temperature thermocouple K.

Features

- Display of 4 parameters
- Interchangeable measuring probes
- Display of calibration date
- 2-channel thermometer
- Data-logging (8000 readings)
- PC and printer interface (USB)

Functions

- Autozero
- Positive, negative and differential pressure
- Integration of the pressure (0 to 10)
- Point/point average
- Automatic point/point average
- automatic average
- Air velocity and airflow with Pitot : point/point average, automatic point/point average, temperature balancing ; manual or automatic
- Air velocity and airflow with Debimo : automatic average, temperature balancing : manual or automatic
- Airflow with K factor
- Delta T
- Hold, min. and max. values, standard deviation

Technical Specifications

	Measuring Units	Measuring Range	Accuracy	Resolution
Pressure	mmH ₂ O, mBar, KPa, Pa, In Wg, mmHG (MP200)	0 to ± 1000mmH ₂ O (MP200)	±0.5% of reading ± 1mmH ₂ O (MP200)	0.1mmH ₂ O (MP200)
	mmH ₂ O, Pa, In Wg (MP202)	0 to ± 1000Pa (MP202)	±0.5% of reading ± 1Pa (MP202)	1Pa (MP202)
Air velocity with Pitot	m/s, fpm	4 to 100m/s (MP200)	±3% of reading ± 0.1m/s	0.1m/s
		2 to 40 m/s (MP202)		
Air velocity with Debimo	m/s, fpm	4 to 100m/s (MP200)	±3% of reading ± 0.1m/s	0.1m/s
		2 to 40 m/s (MP202)		
Airflow with Pitot	m³/h, cfm, l/s, m³/s	0 to 65000 m³/h	±3% of reading ± 10m³/h	1 m³/h
Airflow with Debimo	m³/h, cfm, l/s, m³/s	0 to 65000 m³/h	±3% of reading ± 10m³/h	1 m³/h
Thermocouple K	°C, °F, K	- 200 to -40°C	±1% of reading ± 1.2°C	0.1°C
		-39 to +999°C	±0.5% of reading ± 0.8°C	0.1°C
		+1000 to +1300°C	±1% of reading ± 1.2°C	1°C

Pressure

Liquid Column Manometers

Inclined Manometers - HP



HP type manometers with AWS.10 liquid, density 0.87

Features

Typical applications : monitoring of low pressure in clean rooms and laminar flux hoods.

- High accuracy of measurement
- Ideal for measuring low pressure ranges
- Resolution to 0.1mmH₂O
- Zero adjustment by moving scale
- Scales available in mmH₂O, In.H₂O or Pa
- Integral spirit level for horizontal adjustment.

Technical Specifications

Ref. No	Model	Measuring Range		Sensitivity for 1mmH ₂ O	Dimension (mm)
		mmH ₂ O	Pa		
KI18 G001	HP 5	0-5	0-50	20mm	184 x 80 x 30
KI18 G002	HP 10	0-10	0-100	15mm	234 x 80 x 30
KI18 G003	HP 15	0-15	0-150	10mm	234 x 80 x 30

Inclined Manometers - TX



TX type manometers with AWS.10 liquid, density 0.87

Features

Typical applications : monitoring of low pressure or/and depression in clean rooms and laminar flux hoods.

- Central zero point
- Can be used to measure positive and negative differential pressures
- Ideal for measuring low pressure ranges
- Resolution to 0.1mmH₂O
- Zero adjustment by moving scale
- Scales available in mmH₂O, In.H₂O or Pa
- Integral spirit level for horizontal adjustment.

Technical Specifications

Ref. No	Model	Measuring Range		Sensitivity for 1mmH ₂ O	Dimension (mm)
		mmH ₂ O	Pa		
KI18 G004	TX 25	2.5-0-2.5	25-0-25	20mm	184 x 80 x 30
KI18 G005	TX 50	5-0-5	50-0-50	15mm	234 x 80 x 30
KI18 G006	TX 75	7.5-0-7.5	75-0-75	10mm	234 x 80 x 30

Inclined Manometers - MG



MG type manometers with AWS.10 liquid, density 0.87

Features

Typical applications : monitoring of filters in filtration systems

- Zero adjustment by moving scale
- Incorporates a fluid expansion tank to allow accidental over pressures
- Scales available in mmH₂O, In.H₂O or Pa
- Integral spirit level for horizontal adjustment.

Technical Specifications

Ref. No	Model	Measuring Range		Sensitivity for 1mmH ₂ O	Dimension (mm)
		mmH ₂ O	Pa		
KI18 G007	MG 20	0-20	0-200	8mm	196 x 80 x 25
KI18 G008	MG 40	0-40	0-400	4mm	192 x 105 x 25
KI18 G009	MG 50	0-50	0-500	3mm	178 x 117 x 25
KI18 G010	MG 60	0-60	0-600	3mm	206 x 129 x 25
KI18 G011	MG 80	0-80	0-800	2.5mm	219 x 154 x 25
KI18 G012	MG 100	0-100	0-1000	2.5mm	265 x 175 x 25

Inclined Manometers - KX



KX type manometers with AWS.10 liquid, density 0.87

Features

Typical applications : monitoring of filters in filtration systems

- Central zero point
- Can be used to measure positive and negative differential pressures
- Zero adjustment by moving scale
- Scales available in mmH₂O, In.H₂O or Pa
- Integral spirit level for horizontal adjustment.

Technical Specifications

Ref. No	Model	Measuring Range		Sensitivity for 1mmH ₂ O	Dimension (mm)
		mmH ₂ O	P		
KI18 G013	KX 202	20-0-20	200-0-200	4mm	192 x 105 x 25
KI18 G014	KX 205	25-0-25	250-0-250	3mm	178 x 117 x 25
KI18 G015	KX 303	30-0-30	300-0-300	3mm	206 x 109 x 25
KI18 G016	KX 404	40-0-40	400-0-400	2.5mm	219 x 154 x 25
KI18 G017	KX 505	50-0-50	500-0-500	2.5mm	265 x 175 x 25

Inclined Manometers - VH



VH type manometers with AWS.10 liquid, density 0.87

Features

Typical applications : monitoring of filters in filtration systems

- Horizontal V-shaped liquid column
- Double measuring scale
- Different sensitivity on the two measuring scales
- Zero adjustment by float
- Scales available in mmH₂O, In.H₂O or Pa
- Integral spirit level for horizontal adjustment.

Technical Specifications

Ref. No	Model	Measuring Range		Measuring Range per column		Sensitivity for 1mmH ₂ O		Dimension (mm)
		mmH ₂ O	Pa	1st (mmH ₂ O)	2nd (mmH ₂ O)	1st	2nd	
KI18 G018	VH 35	0-35	0-350	0-11	14-35	8mm	5.5mm	180 x 94 x 25
KI18 G019	VH 50	0-50	0-500	0-16	19-50	7mm	3.5mm	188 x 112 x 25
KI18 G020	VH 100	0-100	0-1000	0-16	18-100	7mm	2.5mm	188 x 167 x 25

Vertical Manometers - TJ



TJ type manometers with liquids : AWS.10, VOLT.1S, Hg

Features

Typical applications : monitoring of ventilation and industrial pressures

- Easy reading of measurement on a single column
- Models available with pressure ranges up to 1.5 bars
- Zero adjustment by moving scale
- Scales available in mmH₂O, In.H₂O, mbar, mmHg, In.Hg and DaPa

Technical Specifications

Ref. No	Model	Measuring Range depending on liquid			Dimension (mm)
		AWS.10 d=0.87	VOLT.1S d=1.86	Hg d=13.545	
		mmH ₂ O	mmH ₂ O	mbar	
KI18 G021	TJ 100	0-100	-	-	185 x 57 x 25
KI18 G022	TJ 150	0-150	-	-	243 x 57 x 25
KI18 G023	TJ 200	0-200	0-450	0-310	314 x 57 x 25
KI18 G024	TJ 300	0-300	0-650	0-470	430 x 57 x 25
KI18 G025	TJ 400	0-400	0-850	0-620	545 x 57 x 25
KI18 G026	TJ 600	0-600	0-1300	0-920	777 x 57 x 25
KI18 G027	TJ 800	0-800	0-1750	0-1230	1008 x 57 x 25
KI18 G028	TJ 1000	0-1000	0-2150	0-1550	1239 x 57 x 25

Vertical Manometers - LU



LU type manometers with liquids : AWS.10, VOLT.1S, Hg

Features

Typical applications : monitoring of ventilation and industrial pressures

- Reading of measurement by adding values on each column
- Models available with pressure ranges up to 1.5 bars
- Central zero point
- Can be used to measure positive and negative differential pressures
- Zero adjustment by moving scale
- Scales available in mmH₂O, In.H₂O, mbar, mmHg, In. Hg and DaPa

Technical Specifications

Ref. No	Model	Measuring Range depending on liquid			Dimension (mm)
		AWS.10 d=0.87 mmH ₂ O	VOLT.1S d=1.86 mmH ₂ O	Hg d=13.545 mbar	
KI18 G029	LU 100	50-0-50	-	-	207 x 57 x 25
KI18 G030	LU 200	100-0-100	220-0-220	-	324 x 57 x 25
KI18 G031	LU 300	150-0-150	330-0-330	240-0-240	441 x 57 x 25
KI18 G032	LU 400	200-0-200	430-0-430	310-0-310	558 x 57 x 25
KI18 G033	LU 600	300-0-300	650-0-650	440-0-440	792 x 57 x 25
KI18 G034	LU 800	400-0-400	870-0-870	620-0-620	1026 x 57 x 25
KI18 G035	LU 1000	500-0-500	1090-0-1090	780-0-780	1260 x 57 x 25

Vertical Manometers - GF



GF type manometers with liquids : VF1, Hg

Features

Typical applications : monitoring of gas network pressure

- Reading of measurement by adding values on each column
- Models available with pressure ranges up to 1.34 bars
- Central zero point
- Can be used to measure positive and negative differential pressures
- Zero adjustment by moving scale
- Scales available in mmH₂O, In.H₂O, mbar, mmHg, In. Hg and DaPa

Technical Specifications

Ref. No	Model	Measuring Range		Common Dimension (mm)
		VF1 d=1 (mmH ₂ O)	Hg d=13.545 (mbar)	
KI18 G036	GF 250	125-0-125	-	357 x 70 x 25
KI18 G037	GF 500	250-0-250	-	607 x 70 x 25
KI18 G038	GF 700	350-0-350	-	807 x 70 x 25
KI18 G039	GF 1000	500-0-500	-	1107 x 70 x 25
KI18 G040	GF 34	-	170-0-170	357 x 70 x 25
KI18 G041	GF 68	-	340-0-340	607 x 70 x 25
KI18 G042	GF 94	-	470-0-470	807 x 70 x 25
KI18 G043	GF 134	-	670-0-670	1107 x 70 x 25

Portable Manometers - MT



MT type manometers with VOLT.1S liquid, density 1.86

Features

Typical applications : monitoring of pressure in chimney flues, combustion chambers and filters

- Designed and manufactured to be portable
- Incorporates a fluid expansion tank to allow accidental over pressure
- Zero adjustment by moving scale
- Integral spirit level for horizontal adjustment
- Supplied with valve connections, tube with adaptors, magnetic brackets, frame with base and carrying case

Technical Specifications

Ref. No	Model	Measuring Range mmH ₂ O	Dimension (mm)	Sensitivity pour 1mmH ₂ O
KI18 G044	MT 10	0-10	196 x 92 x 37	9.2mm
KI18 G045	MT 40	0-40	208 x 93 x 37	4.0mm
KI18 G046	MT 80	0-50	203 x 116 x 37	2.0mm
KI18 G047	MT 100	0-100	190 x 129 x 37	1.4mm

Portable Manometers - KM

KM type manometers with VOLT.1S liquid, density 1.86

Features

Typical applications : measuring of gas network pressure

- Designed and manufactured to be portable
- Easy reading of measurement on a single column
- Fitted with safety valve to allow accidental over pressure
- Zero adjustment by moving scale
- Supplied with valve connectors, fixing bracket, tube with adaptors and carrying cover

Technical Specifications

Ref. No	Model	Measuring Range mBar	Dimension (mm)
KI18 G048	KM 45	0-45	306 x 50 x 20

Industrial Manometers - MVI & MVL

MVI & MVL type manometers with liquids : AWS.10, VOLT.1S, Hg, Tetra Bromide

Features

Typical application : precise pressure measurement, recommended for the calibration of needle pressure gauges, sensors and portable devices. The MVI and MVL manometers are high precision industrial manometers offering high level of accuracy and precise measurement.

- The MVI use calibrated borosilicate glass tube : $\varnothing 4 \pm 0.7\text{mm}$
- The MVL high precision calibrated borosilicate glass tube : $\varnothing 4 \pm 0.015\text{mm}$
- Frame manufactured from 316L stainless steel
- Zero adjustment by moving scale
- Fitted with two pressure variation indicators
- The parallax mirror allows precise measurement reading
- Supplied with a calibration certificate
- Fitted with 1/4 gas stainless steel female connections

Technical Specifications

Ref. No	Model	Dimension	AWS.10 d=0.87	VOLT.1S d=1.86	TB d=2.96	Hg d=13,545
		(mm)	mmH ₂ O	mmH ₂ O	mbar	mbar
KI18 G049	MVI/MVL 250	445 x 102 x 59	0-250	0-450	0-75	0-350
KI18 G050	MVI/MVL 500	679 x 102 x 59	0-450	0-950	0-150	0-700
KI18 G051	MVI/MVL 750	921 x 102 x 59	0-650	0-1400	0-225	0-1000
KI18 G052	MVI/MVL 1000	1192 x 102 x 59	0-850	0-1900	0-300	0-1400
KI18 G053	MVI/MVL 1500	1676 x 102 x 59	0-1300	0-2800	0-450	0-2000
Resolution			1 mmH ₂ O	5 mmH ₂ O	1 mbar	2 mbar

Pressure

Industrial Manometers - GFI



GFI type manometers with liquids : VF1, Hg

Features

Typical applications : pressure and depression industrial measuring industrial monitoring of gas network pressure

- Frame manufactured in 304L stainless steel
- Use calibrated Pyrex tube : $\varnothing 4 \pm 0.7\text{mm}$
- Fitted with 1/4 gas stainless steel female connection
- Central zero point
- Reading of measurement by adding values on each column
- Zero adjustment by moving scale
- Can be used to measure positive and negative differential pressures
- Models available with pressure ranges up to 2.68 bars
- Scales available in mmH_2O , $\text{In.H}_2\text{O}$, mbar, mmHg, In. Hg and DaPa

Technical Specifications

Ref. No	Model	Measuring Range		Dimension (mm)
		VF1 d=1 mmH_2O	Hg d=13.545 mbar	
KI18 G054	GF 500	250-0-250	-	635 x 70 x 25
KI18 G055	GF 1000	500-0-500	-	1135 x 70 x 25
KI18 G056	GF 150	750-0-750	-	1635 x 70 x 25
KI18 G057	GF 2000	1000-0-1000	-	2135 x 70 x 25
KI18 G058	GF 68	-	340-0-340	635 x 70 x 25
KI18 G059	GF 134	-	670-0-670	1135 x 70 x 25
KI18 G060	GF 200	-	1000-0-1000	1635 x 70 x 25
KI18 G061	GF 268	-	1340-0-1340	2135 x 70 x 25

Inclined Precision Manometers - Labo



This manometer has been designed for use with low pressure and offers high measurement accuracy across the range. The manometric column is produced in calibrated glass tube ensuring the accuracy measurements. The device is available in 3 pressure ranges : 0-250 Pa, 0-500 Pa and 1000 Pa.

Ref. No : KI18 G062

Model : Labo

Vertical Precision Manometers - DFP



This device uses a calibrated glass manometric column and photoelectric detection which combines the reliability of physical measurement with electronic accuracy. It is generally used as a reference point for calibration. The device is available in 3 pressure ranges : 0-3000 Pa, 0-5000 Pa and 10000 Pa, with a resolution to 0.1 Pa.

Ref. No : KI18 G063

Model : DFP

Pressure and Temperature Recorders



Ref. No : PT18 H001
Model : 2512

The Dri-Flo II pressure and temperature recorder provides a continuous record of pressure and/or temperature in most any process for both measurement and monitoring purposes. It allows the flexibility to measure any combination of one, two or three process temperatures or pressures.

Features

- DIRECTLY records pressure and temperatures – no external transducers required.
- Tugged Die Cast Aluminum case.
- No external power supply required
- Uses standard 12" circular charts and pens used by all major brands of recorders.
- Accepts up to three elements with three pens.

Technical Specifications

Accuracy	: 0.5% of full scale
Pressure range	: 0-25, 50, 100, 200, 250, 300, 500, 750, 1000, 1500, 2000, 2500, 3000, 4000, 5000, 6000, 7000, 10,000 PSIG (Can be calibrated to any unit of measure PSIG, PSIA, kPa, Bars, kg/cm ²)
Temperature ranges	: 0-150, 0-200, 0-300, 0-400, 0-500, 0-600 Deg F (Can be calibrated in degrees C)
Chart Speeds (switchable):	60 min, 96 min, 12 HR, 1D, 2D, 7D, 8D, 14D, 16D, 31D, 32D

When ordering please specify:

- Pressure Range(s)
- Mounting: pipe, portable or wall
- Temperature element: capillary length and range(s).
- Thermowell (if necessary): pipe or vessel size, process connection size.

Recording Orifice Meter



Ref. No : PT18 H002
Model : 25FS

25FS recording orifice meter is used for the accurate measurement of flowing fluid, including wellhead and pipeline gas, as well as liquid or steam. It operates by measuring the differential pressure of the fluid across an orifice plate, venturi or flow nozzle. It can also measure tank liquid level by measuring the hydrostatic head pressure created by liquid.

Technical Specifications

Accuracy	: Differential pressure unit: 0.5% of full scale Static and temperature elements: 1% of full scale
Repeatability	: 0.1% of scale
Differential pressure unit (DPU) ranges	: 0-20"W.C., 0-50"W.C., 0-100"W.C., 0-200"W.C., 0-400"W.C..
Maop for the DPU	: 2500 psig, 1850 for H2S service.
Static Pressure range	: 0-25, 50, 100, 200, 250, 300, 500, 750, 1000, 1500, 2000, 2500 psig.
Pressure ranges available in units of	: PSIG, PSIA, kPa, Bars and mBars.
Temperature ranges	: 0-150, 0-200, 0-300, 0-400, 0-500, 0-600 Deg F
Chart Speeds	: 60 min, 96 min, 12 HR, 1D, 2D, 7D, 8D, 14D, 16D, 31D, 32D

When ordering please specify:

- Differential Pressure Range
- Service application: standard or corrosive.
- Pressure elements: range.
- Temperature Element: capillary length and range.
- Thermowell (if necessary): pipe or vessel size, process connection size.
- Needle isolation Valve (s): Carbon or Stainless Steel
- Accessories: mounting saddle, manifolds – 3 or 5 valve, CS or SST.

Sensor & Transmitter

Thermostats - TST



Ref. No : KI18 J001
Model : TST

Probe

M Ambient
E Air tight
B Pt100 input,
on terminal block



To order, just add the code to
complete the part number

Technical Specifications

Measuring ranges	: 0 to + 50°C (ambient model) -20 to +80°C (air tight model) according to the probe : -50 to +400°C (Pt 100 input on terminal block)
Unit	: °C, °F
Accuracy	: ±1% of reading ±0.4°C
Operating time	: 1/e (63%) 5 sec. (ambient model) 1/e (63%) 20 sec. (air tight model) according to probe (Pt 100 input on terminal block)
Resolution	: 0.1°C
Type of transmitter	: Pt 100 class A as per DIN IEC 751
Type of fluid	: air and neutral gases
Output	: 1RCR relay 3A/230 Vac
Relay and alarm status	: red LED in front
Set point	: 1 configurable set point
Time Delay Setting	
Power supply	: 24 Vac/ Vdc ± 10%
Communication to PC	: Kimo RS 232 cable
Options	: Power supply class 2, input 230 Vac, output 24 Vac, ref. KIAL-100A Configuration software LCC 100 with RS 232 cable Temperature probes Pt100 3 wires

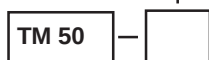
Temperature Transmitter - TM 50



Ref. No : KI18 J002
Model : TM 50

Probe

A Ambient
B Pt100 on terminal block
E Air tight



To order, just add the code to
complete the part number

Technical Specifications

Measuring ranges	: 10 to + 40°C (ambient model) -20 to +80°C (air tight model) depending on the probe (Pt100 on terminal block)
Accuracy	: Pt100 class A as per DIN IEC751
Response time	: 1/e (63%) 5 sec. (ambient model) 1/e (63%) 20 sec. (air tight model) depending on the probe (Pt 100 on terminal block)
Type of fluid	: air and neutral gases
Output	: Pt100 3 wires
Options	: Temperature probes Pt100 3 wires

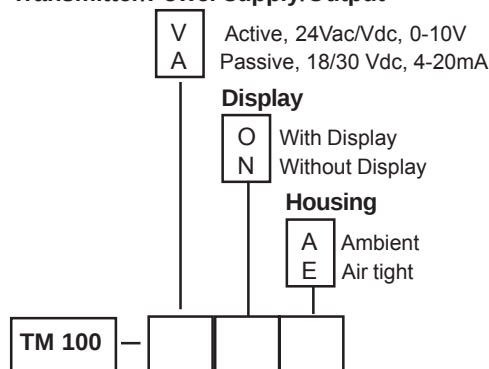
Temperature Transmitter - TM 100



Ref. No : KI18 J003
Model : TM 100

Technical Specifications

Measuring ranges	: 0 to + 50°C, -20 to +80°C, -50 to +50°C, 0 to +100°C
Unit	: °C, °F
Accuracy	: ±0.5% of reading ±0.4°C
Response time	: 1/e (63%) 5 sec. (ambient model) 1/e (63%) 20 sec. (air tight model)
Resolution	: 0.1°C
Type of sensor	: Pt 100 class A as per DIN IEC 751
Type of fluid	: air and neutral gases
Output/Power supply	: active sensor 0-10V (power supply 24 Vac/Vdc ±10%), 3-4 wires passive loop 4-20mA (power supply 18/30Vdc), 2 wires maximum load : 500 Ohms(4-20mA), minimum load : 1K Ohms (0-10V)
Communication to PC Options	: Kimo RS 232 cable : Power supply class 2, input 230 Vac, output 24 Vac, ref. KIAL-100A Configuration software LCC 100 with RS 232 cable Temperature probes Pt100 3 wires

Transmitter/Power supply/Output

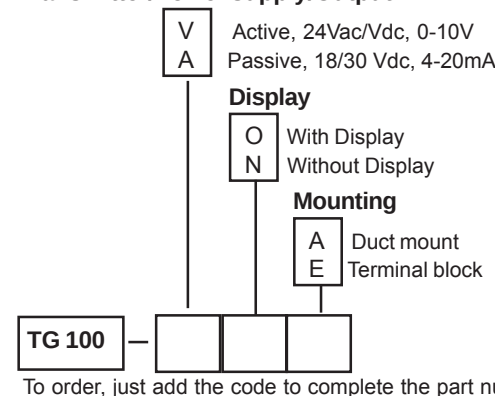
Temperature Transmitter - TG 100



Ref. No : KI18 J004
Model : TG 100

Technical Specifications

Measuring ranges	: 0 to + 50°C, -20 to +80°C, -50 to +50°C, 0 to +100°C, 0 to +200°C, 0 to +300°C, 0 to +400°C (according to model)
Unit	: °C, °F
Accuracy	: ±0.5% of reading ±0.4°C (duct mount probe) according to the probe (Pt100 on terminal block)
Response time	: 1/e (63%) 5 sec. (duct mount probe) according to the probe (Pt100 on terminal block)
Resolution	: 0.1°C
Type of sensor	: Pt 100 class A as per DIN IEC 751
Type of fluid	: air and neutral gases
Output/Power supply	: active transmitter 0-10V (power supply 24 Vac/Vdc± 10%), 3-4 wires passive loop 4-20mA (power supply 18/30Vdc), 2 wires maximum load : 500 Ohms(4-20mA), minimum load : 1K Ohms (0-10V)
Communication to PC Options	: Kimo RS 232 cable : Power supply class 2, input 230 Vac, output 24 Vac, ref. KIAL-100A Configuration LCC 100 software with RS 232 cable Temperature probes Pt100 3 wires (for model TG 100 on terminal block)

Transmitter/Power supply/Output

Sensor & Transmitter

Humidistats- HST



Ref. No : KI18 J005
Model : HST

Probe

- M Standard
- A Duct mount
- D Remote



To order, just add the code to complete the part number

Technical Specifications

Humidity

Measuring ranges

: 0 to 100 %RH

Accuracy

: $\pm 2\%$ of reading $\pm 2\%RH$ in the range of 10 to 90%RH

Response time

: 1/e (63%) 4 sec.

Resolution

: 0.1%RH

Temperature

Measuring ranges

: 0 to + 50°C (standard model)

-20 to +80°C (duct mount and remote sensor)

Unit

: °C, °F

Accuracy

: $\pm 1\%$ of reading $\pm 0.4^\circ C$ in the range of +5 to +80°C

$\pm 2\%$ of reading $\pm 0.6^\circ C$ in the range of -20 to +5°C

Response time

: 1/e (63%) 15 sec.

Resolution

: 0.1°C

Type of fluid

: air and neutral gases

Output

: 1RCR relay 3A/230 Vac

Relay and alarm status

: red LED in front

Set point

: 2 configurable set points (°C and %RH)

Time delay setting

: 24 Vac/ Vdc $\pm 10\%$

Power supply

: Kimo RS 232 cable

Communication to PC

: Power supply class 2, input 230 Vac, output 24 Vac, ref. KIAL-100A
Configuration software LCC 100 supplied with connection RS 232 cable

Humidity Transmitter - HM 50



Ref. No : KI18 J006
Model : HM 50

Technical Specifications

Humidity

Measuring ranges

: 0 to 100 %RH

Response time

: 1/e (63%) 4 sec.

Type of fluid

: air and neutral gases

Output/Power supply

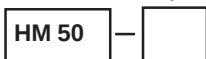
: active sensor 0-10V (power supply 24 Vac/Vdcs $\pm 10\%$),
3-4 wires passive loop 4-20mA (power supply 18/30Vdc),
2 wires maximum load : 500 Ohms(4-20mA),
minimum load : 1K Ohms (0-10V)

Communication to PC

: Kimo RS 232 cable

Transmitter/Power supply/Output

- V Active, 24Vac/Vdc, 0-10V
- A Passive, 18/30 Vdc, 4-20mA



To order, just add the code to complete the part number

Temperature and Humidity Transmitter - TH 100



Ref. No : KI18 J007
Model : TH 100

Technical Specifications

Humidity

Measuring ranges : 0 to 100 %RH
Response time : 1/e (63%) 4 sec.
Resolution : 0.1%RH

Temperature

Measuring ranges : 0 to + 50°C, -20 to +80°C, -50 to +50°C, 0 to +100°C
Unit : °C, °F

Accuracy : ±1% of reading ±0.4°C in the range of +5 to +80°C
±2% of reading ±0.6°C in the range of -20 to +5°C

Response time : 1/e (63%) 15 sec.

Resolution : 0.1°C

Type of fluid : air and neutral gases

Output/Power supply : active sensor 0-10V (power supply 24 Vac/Vdc± 10%),
3-4 wires passive loop 4-20mA (power supply 18/30Vdc),
2 wires maximum load : 500 Ohms(4-20mA),
minimum load : 1K Ohms (0-10V)

Communication to PC Options

: Kimo RS 232 cable
: Power supply class 2, input 230 Vac, output 24 Vac, ref. KIAL-100A
Configuration software LCC 100 with RS 232 cable

Transmitter/Power supply/Output

V Active, 24Vac/Vdc, 0-10V
A Passive, 18/30 Vdc, 4-20mA

Display

O With Display
N Without Display

Probe

S Standard
A Duct Mount
D Remote



To order, just add the code to complete the part number

Temperature and Humidity Transmitter - TH 200/TH 300



Ref. No : KI18 J008
Model : TH 200



Ref. No : KI18 J009
Model : TH 300

Technical Specifications

Humidity

Measuring ranges : 0 to 100 %RH
Accuracy (GAL) : ±2.58% RH between 18°C and 28°C
Response time : <10 sec. (from 10% RH to 80% RH $V_{air}=2$ m/s)
Resolution : 0.1%RH
Type of sensor : capacitive

Temperature

Measuring ranges : -20 to + 120°C (polycarbonate probe)
-40 to + 180°C (stainless steel probe)

Unit : °C, °F

Accuracy : ±0.5% of reading ±0.3°C

Response time : $t_{0.9} = 9$ sec. for $V_{air} = 1$ m/s

Resolution : 0.1°C

Type of sensor : Pt100 class A as per DIN IEC 751

Type of fluid : air and neutral gases

Power supply : 24 Vac/Vdc± 10%, 115Vac or 230Vac ± 10%, 50-60Hz
Output : 2 x 4-20mA or 2 x 0-10 V(4 wires),
maximum load : 500 Ohms(4-20mA),
minimum load : 1K Ohms (0-10V)

Galvanic isolation : Inputs and outputs (115 Vac/230Vac models)
outputs (24 Vac/Vdc models)

Relays : 2 RCR relays 6A/230Vac

Visual alarms : 2 dual color LED

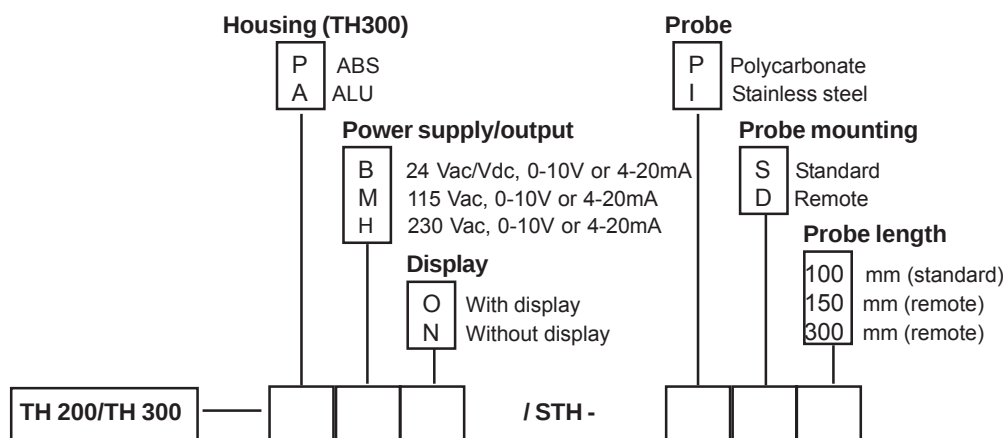
Audible alarm : buzzer

RS485 communication (TH300) : Digital : RTU Modbus protocol communication speed
configurable from 2400 to 115200 Bauds

RS232 communication : Digital: ASCII, proprietary protocol

Options : RS 485 digital output for MODBUS protocol
Configuration software LCC 300 with RS 232 cable
Infrared remote control for configuration (for models with display)
Calibration certificate

Sensor & Transmitter



To order, just add the code to complete the part number

Setting :

- the parameter (Humidity, temperature, dewpoint)
- 1 or 2 set points (high and low) for each alarm
- the time delay/ 60 sec max.
- the alarm action (rising or falling)
- the relay operation mode: positive or negative security
- the audible alarm (buzzer) activation

Features

Class 300 transmitters have 2 analogue outputs which correspond to the first 2 parameters displayed. You can activate 1 or 2 outputs; and for each output, you can choose between humidity, temperature and the functions below .

Functions	Technical Specification	
	Measuring Range	Units and resolutions
Mixing ratio	from 2 to 900 g/Kg	0.1 g/kg
Dew point	from -80 to +180 °C	0.1 °C
Wet temperature	from -20 to +180 °C	0.1 °C
Enthalpy	from 0 to 15000 Kj/Kg	0.1 kj/kg

Class 300 transmitters can display up to 4 parameters simultaneously. The last 2 parameters are only displayed, they have no output.

Temperature and air velocity transmitter - CTV 100**Technical Specifications****Air Velocity****Measuring ranges****Unit****Accuracy****Response time****Resolution**

: 0 to 5m/s, 0 to 10m/s, 0 to 15m/s, 0 to 20m/s, 0 to 30m/s

: m/s and fpm

: ±3% of reading ±0.3m/s

: 1/e (63%) 2 sec.

: 0.1m/s

Temperature**Measuring ranges****Unit****Accuracy****Response time****Resolution****Type of sensor****Type of fluid****Output/Power supply**

: 0 to +50°C, -20 to +80°C, -50 to +50°C, 0 to +100°C

: °C, °F

: ±0.5% of reading ±0.4°C

: 1/e (63%) 5 sec.

: 0.1°C

: Pt100 class A as per DIN IEC 751

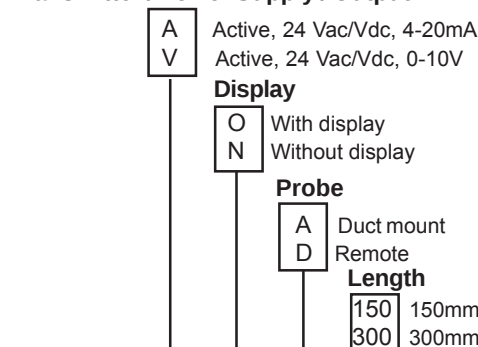
: air and neutral gases

: active sensor 0-10V or 4-20mA (power supply 24 Vac/Vdc± 10%),
3-4 wires maximum load : 500 Ohms(4-20mA),
minimum load : 1K Ohms (0-10V)

Communication to PC**Options**

: Kimo RS 232 cable

: Power supply class 2, input 230 Vac, output 24 Vac, ref. KIAL-100A
Configuration software LCC 100 with RS 232 cable

Transmitter / Power Supply / Output

To order, just add the code to complete the part number

Air velocity / Airflow Transmitter - CTV 200



Ref. No : KI18 J011
Model : CTV 200

Technical Specifications**Air velocity****Measuring range**

: 0-1 m/s to 0-20 m/s

Unit

: m/s and fpm

Accuracy: from 0 to 3 m/s : $\pm 3\%$ of reading ± 0.03 m/s
from 3 to 20 m/s : $\pm 3\%$ of reading ± 0.1 m/s**Response time**

: 1/e (63%) 4 sec

Resolution

: 0.1 m/s

Type of fluid

: air and neutral filtered glass

Temperature**Measuring ranges**

: 0 to + 50°C

Unit

: °C, °F

Accuracy: $\pm 0.5\%$ of reading ± 0.3 °C**Response time**: $t_{0.9} = 9$ sec. for $V_{air} = 1$ m/s**Resolution**

: 0.1°C

Type of sensor

: Pt100 class A as per DIN IEC 751

Type of fluid

: air and neutral gases

Power supply: 24 Vac/Vdc $\pm 10\%$, 115Vac or 230Vac $\pm 10\%$, 50-60Hz**Output**: 2 x 4-20mA or 2 x 0-10 V(4 wires),
maximum load : 500 Ohms(4-20mA),
minimum load : 1K Ohms (0-10V)**Galvanic isolation**: Inputs and outputs (115 Vac/230Vac models)
outputs (24 Vac/Vdc models)**Relays**

: 2 RCR relays 6A/230Vac

Visual alarms

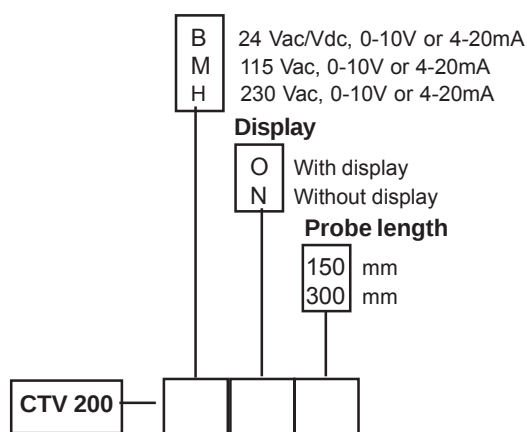
: 2 dual color LED

Audible alarm

: buzzer

RS232 communication

: Digital: ASCII, proprietary protocol

Options: Configuration software type LCC 300 supplied with RS 232 cable
Calibration certificate**Power supply / output**

To order, just add the code to complete the part number

Setting :

- the parameter (air velocity, airflow, temperature)
- 1 or 2 set points (high and low) for each alarm
- the time delay/ 60 sec max.
- the alarm action (rising or falling)
- the relay operation mode: positive or negative security
- the audible alarm (buzzer) activation

Features

Class 200 transmitters have 2 analogue outputs which correspond to the 2 parameters displayed. You can activate 1 or 2 outputs; and for each output, you can choose between air velocity, temperature and air flow.

Functions	Technical Specification	
	Measuring Range	Units and resolutions
Airflow	0 to 100 000 m ³ /h (depends on air velocity and duct dimensions)	1 m ³ /h - 0.1m ³ /s 0.1 l/s - 1 cfm

Sensor & Transmitter

Manostats - PST



Ref. No : KI18 J012

Model : PST

Measuring range

- | | |
|---|----------------------------------|
| 1 | -500 to +1000 Pa |
| 2 | -500 to +1000 mmH ₂ O |
| 3 | -250 to +500 mbar |
| 4 | -1000 to +2000 mbar |



To order, just add the code to complete the part number

Technical SpecificationsPressure

Measuring ranges

: -500 to +1000 Pa, -500 to +1000 mmH₂O, -250 to +500 mbar, -1000 to +2000 mbar

Unit

: Pa, mmH₂O, mbar, in WG, mmHG (PST-1 and PST-2)
mbar, inWG, mmHG, KPa, PSI (PST-3 and PST-4)

Accuracy

: ±2% of reading ±3 Pa (PST-1)
±2% of reading ±3 mmH₂O (PST-2)
±2% of reading ±3 mbar (PST-3 and PST-4)

Response time

: 0.3 sec.

Resolution

: 1 Pa - 0.1mmH₂O - 0.01 mbar - 0.01 inWG - 0.01 mmHG (PST-1 and PST-2)
0.01 mbar - 0.01 in WG - 0.01 mmHG - 0.1 KPa- 0.1 PSI (PST-3 and PST-4)

Autozero

: manual with push-button

Type of fluid

: air and neutral gases

Over pressure tolerated

: 25000 Pa (PST-1), 7000 mmH₂O (PST-2)
1400mbar (PST-3), 3000mbar (PST-4)

Output

: 1RCR relay 3A/230 Vac

Relay and alarm status

: red LED in front

Set point

: 1 configurable set point

Time delay setting

Power supply

: 24 Vac/Vdc ±10%

Communication to PC

: Kimo RS 232 cable

Options

: Power supply class 2, input 230 Vac, output 24 Vac, ref. KIAL-100A
Configuration software LCC 100 with RS 232 cable

Pressure transmitter - CP 50



Ref. No : KI18 J013

Model : CP 50

Technical SpecificationsPressure

Measuring ranges

: from -5000/+10 000 Pa (configurable)

Unit

: Pa, mmH₂O, mbar, in WG, mmHG

Accuracy

: ±2% of reading ± 3mmH₂O

Response time

: 1/e (63%) 0.3 sec.

Autozero

: manual with push-button

Type of fluid

: air and neutral gases

Overpressure tolerated

: 7500mmH₂O

Output/Power supply

: active sensor 0-10V or 4-20mA (power supply 24 Vac/Vdc± 10%),
3-4 wires maximum load : 500 Ohms(4-20mA),
minimum load : 1K Ohms (0-10V)

Communication to PC

: Kimo RS 232 cable

Options

: Power supply class 2, input 230 Vac, output 24 Vac, ref. KIAL-100A
Configuration software LCC 100 with RS 232 cable

Pressure Transmitter - CP 100

Technical Specifications

Ref. No : KI18 J014
Model : CP 100

Pressure	
Measuring ranges	: -500 to +1000 Pa, -500 to +1000 mmH ₂ O, -250 to +500 mbar, -1000 to +2000 mbar
Unit	: Pa, mmH ₂ O, mbar, in WG, mmHG (CP101 and CP102) mbar, inWG, mmHG, KPa, PSI (CP103 and CP104)
Accuracy	: ±1.5% of reading ±3 Pa (CP101) ±1.5% of reading ±3 mmH ₂ O (CP102) ±1.5% of reading ±3 mbar (CP103 and CP104)
Response time	: 1/e (63%) 0.3 sec.
Resolution	: 1 Pa - 0.1mmH ₂ O - 0.01 mbar - 0.01 inWG - 0.01 mmHG (CP101 and CP102) 0.01 mbar - 0.01 in WG - 0.01 mmHG - 0.1 KPa- 0.1 PSI (CP103 and CP104)
Autozero	: manual with push-button
Type of fluid	: air and neutral gases
Over pressure tolerated	: 25000 Pa (CP101), 7000 mmH ₂ O (CP102) 1400mbar (CP103), 3000mbar (CP104)
Output/Power supply	: active sensor 0-10V (power supply 24 Vac/Vdc± 10%), 3-4 wires passive loop 4-20mA (power supply 18/30Vdc), 2 wires maximum load : 500 Ohms(4-20mA), minimum load : 1K Ohms (0-10V)
Communication to PC	: Kimo RS 232 cable
Options	: Power supply class 2, input 230 Vac, output 24 Vac, ref. KIAL-100A Configuration software LCC 100 supplied with RS 232 cable

Measuring range

1	-500 to +1000 Pa
2	-500 to +1000 mmH ₂ O
3	-250 to +500 mbar
4	-1000 to +2000 mbar

For the intermediary and central zero ranges, see "Configuration".

Transmitter/Power supply/output

A	Active, 24 Vac/Vdc, 0-10V or 4-20mA
P	Passive, 18/30Vdc, 4-20mA

Display

O	With display
N	Without display



To order, just add the code to complete the part number

Sensor & Transmitter

Pressure transmitter - CP 200



Ref. No : KI18 J015
Model : CP 200

Technical Specifications**Pressure****Measuring ranges**

: -1000 to +1000 Pa, -10000 to +10000 Pa, -500 to +500 mbar, -2000 to +2000 mbar

Unit

: Pa, mmH₂O, mbar, in WG, mmHG (CP201 and CP202)
mbar, inWG, mmHG, KPa, PSI (CP203 and CP204)

Accuracy

: ±1% of reading ±2 Pa (CP201)
±1% of reading ±2 mmH₂O (CP202)
±1% of reading ±2 mbar (CP203 and CP204)

Response time

: 1/e (63%) 0.3 sec.

Resolution

: 1 Pa - 0.1mmH₂O - 0.01 mbar - 0.01 inWG - 0.01 mmHG (CP201 and CP202)
0.01 mbar - 0.01 in WG - 0.01 mmHG - 0.1 KPa- 0.1 PSI (CP203 and CP204)

Autozero

: push-button

Type of fluid

: air and neutral gases

Over pressure tolerated

: 25000 Pa (CP201), 7000 mmH₂O (CP202)
1400mbar (CP203), 3000mbar (CP204)

Power supply

: 24 Vac/Vdc ± 10%, 115Vac or 230Vac ± 10%, 50-60Hz

Output

: 2 x 4-20mA or 2 x 0-10 V(4 wires),
maximum load : 500 Ohms(4-20mA),
minimum load : 1K Ohms (0-10V)

Galvanic isolation

: Inputs and outputs (115 Vac/230Vac models)
outputs (24 Vac/Vdc models)

Relays

: 2 RCR relays 6A/230Vac

Visual alarms

: 2 dual color LED

Audible alarm

: buzzer

RS232 communication

: numerical : ASCII, proprietary protocol

Options

: SQR/Z (square root extraction) function for the calculation of air velocity and air flow
LCC-300 configuration software with RS232 cable
Calibration certificate

Measuring range

1	-1000 to +1000 Pa
2	-10000 to +10000 Pa
3	-500 to +500 mbar
4	-2000 to +2000 mbar

For the intermediary and central zero ranges, see "Configuration".

Transmitter/Power supply/output

B	24 Vac/Vdc, 0-10V or 4-20mA
M	115 Vac, 0-10V or 4-20mA
H	230 Vac, 0-10V or 4-20mA

Display

O	With display
N	Without display



To order, just add the code to complete the part number

Setting :

- the parameter (pressure, air velocity, airflow)
- 1 or 2 set points (rising and falling action) for each alarm
- the time delay/ 60 sec max.
- the alarm action (rising or falling)
- the relay operation mode: positive or negative security
- the audible alarm (buzzer) activation

Features

Class 200 transmitters have 2 analogue outputs which correspond to the 2 parameters displayed. You can activate 1 or 2 outputs; and for each output, you can choose between pressure, air velocity, and air flow. (optional functions)

Functions	Features	
	Measuring Range	Units and resolutions
Air velocity*	3 to 100m/s (according to model)	0.1 m/s - 0.1 fpm
Airflow*	0 to 100 000 m³/h (depends on air velocity and duct dimensions)	1 m³/h - 0.1m³/s 0.1 l/s - 1 cfm

*Differential probe (Pitot tubem Debimo....) sold separately

Air velocity and airflow functions**Air velocity calculation function**

$$\text{Air velocity (m/s)} = C_m \times C_c \times C_T \sqrt{A \text{ pressure (Pa)}}$$

Airflow calculation function

$$\text{Airflow (m³/h)} = \text{air velocity (m/s)} \times \text{surface (m²)} \times 3600$$

Configurable intermediate or centre zero ranges

Probe ref.	Pressure range	Air velocity range*
CP 201	-1000 to +1000 Pa	3 to 30 m/s
CP 202	-10000 to +10000 Pa	3 to 100 m/s
CP 203	-500 to +500 mbar	not available
CP 204	-2000 to +2000 mbar	not available

*These air velocity ranges are given for information, based on a DEBIMO differential probe (Cm=1) and they do not take into account temperature compensation

The minimum configurable range is 10% of the full scale

Optional Accessories

- Pitot tube
- Debimo measuring blades

Pressure transmitter - CP 300



Ref. No : KI18 J016
Model : CP 300

Technical Specifications**Pressure****Measuring ranges**

: -100 to +100 Pa, -500 to +500 Pa, -1000 to +1000Pa,
-10000 to +10000 Pa

Unit

: Pa, mmH₂O, mbar, in WG, mmHG

Accuracy

: ±0.5% of reading ±1 Pa

Zero drift

: none (self-calibration)

Resolution

: 1 Pa - 0.1mmH₂O - 0.01 mbar - 0.01 inWG - 0.01 mmHG

Self-calibration

: push-button or automatic (configurable)

Type of fluid

: air and neutral gases

Over pressure tolerated

: 25000 Pa (CP301, CP302, CP303), 70000 Pa (CP304)

Response time

: 1/e (63%) 0.3 sec.

Power supply

: 24 Vac/Vdc± 10%, 115Vac or 230Vac ± 10%, 50-60Hz

Output

: 2 x 4-20mA or 2 x 0-10 V(4 wires),
maximum load : 500 Ohms(4-20mA),
minimum load : 1K Ohms (0-10V)

Galvanic isolation

: Inputs and outputs (115 Vac/230Vac models)
outputs (24 Vac/Vdc models)

Relays

: 2 RCR relays 6A/230Vac

Visual alarms

: 2 dual color LED

Audible alarm

: buzzer

RS485 communication

: digital: Modbus RTU system communication speed configurable f
from 2400 to 115200 Bauds

RS232 communication

: numerical: ASCII, proprietary protocol

Measurement and temperature compensation**Type of transmitter**

: Thermocouple K (optional)

Measuring range

: -200 to +1300 °C (probe dependent)

Units

: °C, °F

Resolution

: 0.1°C - 0.1 °F

Options

: SQR/Z (square root extraction) function for the calculation of air
velocity and air flow

Digital output for Modbus network (RS 485 system)

LCC-300 configuration software with RS232 cable

infrared remote control for configuration (only for models with
display)

Calibration certificate

Measuring range

1	-100 to +100 Pa
2	-500 to +500 Pa
3	-1000 to +1000 Pa
4	-10000 to +10000 Pa

For the intermediary and
central zero ranges, see
"Configuration".

Power supply/output

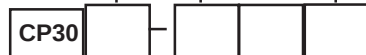
B	24 Vac/Vdc, 0-10V or 4-20mA
M	115 Vac, 0-10V or 4-20mA
H	230 Vac, 0-10V or 4-20mA

Display

O	With display
N	Without display

Housing material

P	ABS
A	ALU



To order, just add the code to complete the part number

Air velocity and airflow functions (optional)**Air velocity calculation function**

$$\text{Air velocity (m/s)} = C_m \times C_c \times C_T \times \sqrt{\Delta \text{pressure (Pa)}}$$

Airflow calculation function

$$\text{Airflow (m}^3/\text{h)} = \text{air velocity (m/s)} \times \text{surface (m}^2) \times 3600$$

Optional Accessories

- Pitot tube
- Debimo measuring blades
- Thermocouple K probes

Setting :

- the parameter (pressure, air velocity, temperature...)
- 1 or 2 set points (rising and falling action) for each alarm
- the time delay/ 60 sec max.
- the alarm action (rising or falling)
- the relay operation mode: positive or negative security
- the audible alarm (buzzer) activation

Features

Class 300 transmitters have 2 analogue outputs which correspond to the first 2 parameters displayed. You can activate 1 or 2 outputs; and for each output, you can choose between pressure, temperature (optional probe), air velocity, and air flow. (optional functions). Class 300 transmitters can display up to 4 parameters simultaneously. The last 2 parameters are only displayed, they have no output.

Functions	Features	
	Measuring Range	Units and resolutions
Air velocity*	2 to 100m/s (according to SPI card)	0.1 m/s - 0.1 fpm -
Airflow*	0 to 100 000 m ³ /h (depends on air velocity and duct dimensions)	1 m ³ /h - 0.1m ³ /s 0.1 l/s - 1 cfm

*Differential probe (Pitot tubem Debimo....) sold separately

Configurable intermediate and centre zero ranges

Probe ref.	Pressure range	Air velocity range*
SPI 100	-100 to +100 Pa	2 to 10 m/s
SPI 500	-500 to +500 Pa	2 to 22 m/s
SPI 1000	-1000 to +1000 Pa	2 to 30 m/s
SPI 10000	-10000 to +10000 Pa	2 to 100 m/s

*Air velocity ranges are given as an indication, based on a differential DEBIMO probe (C_m=1) and they do not take into account temperature compensation
The minimum configurable range is 10% of the full scale

Sensor & Transmitter

Flush-mount pressure transmitter - CPE 300



Ref. No : KI18 J017
Model : CPE 300

Technical Specifications

Pressure

Measuring ranges	: -100 to +100 Pa, -500 to +500 Pa, -1000 to +1000 Pa
Unit	: Pa, mmH ₂ O, mbar, in WG
Accuracy	: ±0.5% of reading ±1 Pa
Zero drift	: none (self-calibration)
Resolution	: 1 Pa - 0,1mmH ₂ O - 0,01 mbar - 0.01 inWG
Self-calibration	: push-button or automatic (configurable)
Type of fluid	: air and neutral gases
Over pressure tolerated	: 25000 Pa
Response time	: 1/e (63%) 0.3 sec.
Power supply	: 24 Vac/Vdc± 10%, 115Vac or 230Vac ± 10%, 50-60Hz
Output	: 1 x 4-20mA or 1 x 0-10 V(4 wires), maximum load : 500 Ohms(4-20mA), minimum load : 1K Ohms (0-10V)

Galvanic isolation

: on the output

Relays

: 2 RCR relays 6A/230Vac

Visual alarms

: 2 dual color LED

Audible alarm

: buzzer

RS485 communication

: digital: RTU Modbus protocol communication speed configurable from 2400 to 115200 Bauds

RS232 communication

: digital : ASCII, proprietary protocol

Measuring range

1	-100 to +100 Pa
2	-500 to +500 Pa
3	-1000 to +1000 Pa

For the intermediary and central zero ranges, see "Configuration".

Front face

B	White lacquered stainless steel
I	Brushed stainless steel



To order, just add the code to complete the part number

Setting :

- 1 or 2 set points (rising and falling action) for each alarm
- the time delay/ 60 sec max.
- the alarm action (rising or falling)
- the relay operation mode: positive or negative security
- the audible alarm (buzzer) activation

Configurable intermediate and centre zero ranges

Probe ref.	Pressure range
SPI 100	-100 to +100 Pa
SPI 500	-500 to +500 Pa
SPI 1000	-1000 to +1000 Pa

The minimum configurable range is 10% of the full scale