

"SIKA" Flow Indicator & Turbine Flow Sensors

Germany

Turbotron Turbine Flow Sensors

- > The liquid flowing into the Turbotan is divided by the guiding blades in four split beams. These hit the rotor from four directions and put it in motion. The uniform loading of bearing from four sizes causes the forces to cancel themselves out for the most part and wear is reduced to a minimum. The extremely hard bearing materials, sapphire and hard metal, ensure in addition an extraordinary life expectancy. > Can be used together with TD32 500 local

TD32 500 **Local Flow & Volume Measuring Instrument**

- Delivery directly assembled on the turbine flow sensor of the product line Turbotron > Selectable measurement unit:
 - Rate of flow: I/min, I/h,m3/h, GPM(US), GPM(UK)

Total flow: I, m3, GAL(US), GAL(UK) Temperature: °C, °F

➤ Power: 12~24V DC

Dimensions: 80mm (dia.) x 55mm (H)

> Protection class: IP 65



TD32 500 with flow sensor (Flow sensor as optional accessory)

VT Series Turbine Flow Sensors

flow & Volume Measuring instrument

DN15, 3/4" BSP (2~40L/mm)



	Economy-priced type for		High pressures, high		Magnet-free rotor, high	
	standard and serial		temperatures, fuels		measurement accuracy, high	
Model	application				reso	lution
	VTH 15 MS	VTH 15 K5	VTP 15 MS	VTP 15 VA	VTI 15 MS	VTI 15 K5
	(Brass)	(Plastic PO)	(Brass)	(Stainless steel)	(Brass)	(Plastic PPO)
Accuracy/ Reproducibility		±1% of	range/ ±0.2%		±0.5% of ra	ange/ ±0.1%
Sensor		Hall effect sensor			Inductive pro	oximity switch
Pulse rate/ K-factor	855 pu	855 pulses/ liter		pulses/ liter	1795 pu	lses/ liter
Measurement range:	2~40l/min					
Measurement range.	with special bearings for low flow rates with continuous flow max. 20l/min				:0l/min	
Signal output	Starting from 0.3l/min					
Nominal pressure	PN 10		P	_{max} = 300	PN	l 10
Max. medium temperature	85 ℃			150℃	85	5°C
Power supply	4.5~2		~24V DC	•	10~30	OV DC

DN25, 1-1/4" BSP (4~160L/min)

Accuracy: ±3% of measured value

Reproducibility: ±0.5%

Pulse rate/ K factor: 65 pulses/ Liter

Signal output: <1I/min



DN40, 2" BSP (0.4~25m³/min)

Accuracy: ±5% of the measured value between

 $0.4 \sim 3 \text{m}^3/\text{h}$

±3% of the measured value between

3~25m³/h

Reproducibility: ±0.5%

Pulse rate/ K-factor: 26.6 pulses/ liter Signal output starting from: 0.1m³/h



Pressure Calibrator

Pressure reference work together with test pump for calibrating pressure gauge

	Test pump				
Туре	Medium	Measuring Range, bar	Pressure adjustment		
P40		-1 (-950mbar)~40			
P350	Air	0~350			
P700	Distilled water or	0~400 (with distilled water) 0~700 (with hydraulic oil)	By handle		
P1000	hydraulic oil	0~400 (with distilled water) 0~1000 (hydraulic oil)			

	Pressure references/ pressure calibrator				
Type Medium E D Fluid or		Measuring Range (bar)	Accuracy		
		-1~40/ 0~350	±0.5% FS ±1 digit		
		-1~3/ -1~40/ 0~350/ 0-700 0~1000	±0.10% FS ±1 digit		
L	gas	-1~2/ -1~20/ 0~200/ 0~400	±0.025% FS ±1 digit		
PC700+	Special oil	0~60/ 0~200/ 0~350/ 0~700	±0.025% FS ±1digit		







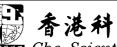






Type D/L

PC 700+



香港科學儀器社有限公司

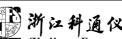
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"SIKA" Pressure/ Humi/ Temp Meter & Calibrator Germany

MH3700 Series Digital Temperature Meter



MH3710 (standard) (Not included sensor probe)

- 1 x mini-DIN-socket for Pt100/ 4-wire
- Measuring range/ resolution: 200~850°C/ 0.1°C,

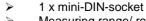
-199.99~199.99°C / 0.01°C

- Accuracy: ±0.015 % FS ±1 digit
- Function: °C/°F unit conversion, Max-Min value memory, hold

MH3750 (same as 3710, but additional logger-, alarm- and clock-functions) (Not included sensor probe)

- Memory: 99 data set, CYCL; 16384 data sets
- Alarm, real time clock
- Optional accessories: software and connecting cable (for data analysis in computer)

MH3300 Series Digital Humidity and Temperature Meter MH3300 (standard) (Not included sensor probe)



Measuring range/ resolution: Humidity: 0~100% TH/ 0.1%RH Temperature: -40.0~120.0°C / 0.1°C

Surface temperature: -80.0~250.0°C/ 0.1°C

Accuracy: Humidity: ±0.1% FS ±1 digit Temperature: ±0.2% FS ±1 digit Surface temperature: ±0.5% Reading ±0.5°C

Function: °C/°F unit conversion, Max-Min memory, hold function, dew point calculation

GTF401 standard temperature sensor probe -50~400°C, 3mm dia. x 150mm length



GOF401 temperature sensor probe for surface measuring

-50~400°C, 3mm (tip: 4mm) dia. x 300mm length

MH3350 (not included probe) (same as 3300, but additional logger-, alarm- and clock function) (Not included sensor probe)

- Memory set: 16200 data set
- Alarm, real time clock
- Software for data analysis



TFS0100E, temperature sensor probe

Temperature: $-40.0 \sim 100.0^{\circ}$ C $(100 \sim 120^{\circ}$ C for short period)

Humidity: 0~100%RH

MH3100 Series Digital Pressure Gauge

MH3110 (Not included external sensor)

- 1 x mini-DIN-socket
- Differential pressure, absolute pressure, air pressure, vacuum measurement
- Accuracy: ±0.1% FS ±1 digit
- Function: Unit conversion (Mbar, bar, Pa, kPa, mmHg, PSI), Max-Min-value Memory, hold function, dew point calculation

MH3160-01 range: -1~25mbar x 0.01mbar MH3160-07 range: -10~350mbar x 0.1mbar

- Differential pressure
- Accuracy: ±0.2% FS
- Function: Unit conversion (Mbar, bar, Pa, kPa, mmHg,PSI), max-min value memory, hold function, dew point calculation,

Interchangeable sensor (for MH3110, with different measuring range)

MSD10BR, Nylon type

Accuracy: ±0.2% FS Measuring range: -1~10 bar (rel.)



MSD350MRE, stainless steel type, Accuracy: ±0.2% FS



Universal Calibrator

MC50 (accuracy: ±0.017% of rdg. +K, resolution: 5 digit)

- Simultaneous simulation and measuring of programmable test points
- Signals:

TC: Types J/K/T/R/S/B/C/U/L/N/E

Temperature adjustable in 0.1-steps

RTD: Pt50/Pt100/Pt200/Pt500/Pt1000/Ni100/Ni120/Ni1000/Cu10/Cu50 Different temperature ranges according to DIN, IEC, JIS etc.

Temperature -coefficients adjustable Temperatures adjustable in 0.01-steps

 Ω : resistance 0~400 Ω / 0~4000 Ω

Resistance resistances adjustable within m Ω -range

mA: Current 0(4) ~20mA. 25mA

Current adjustable within µA-range MV: Voltage 0~100 mV

Voltages adjustable within µV-range

V: Voltage 0~10 V, 25V, 50V

Voltages adjustable within µV-range

Hz: Frequency 1~20kHz

Frequency adjustable in 0.01 Hz-steps

Measuring range: 0~350mbar (rel.)

Pocket calibrator

UC RTD, signal: RTD (accuracy:±0.012%rdg +K)

UC TC, signal: TC (accuracy: ±0.020%rdg +K)

UC mAV, Signal: Current and voltage (accuracy: $\pm 0.015\% rdg + K)$







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MC50

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"SIKA" Temperature calibrator

Germany

Exact temperature measuring and monitoring are "musts" in applications crucial to operational safety of machinery, ships and industrial installations. Regular inspection of the temperature sensors used in these applications is absolutely essential for economic and technical-safety reasons and is already prescribed as obligatory in many sectors.

E.g. Temperature calibrators for applications in: energy-production and energy distribution sector, chemical and petrochemical industry, pharmaceutical industry, food industry and a great deal more.

TP 38000 series Temperature calibrator

- The tank of the temperature calibrator provide accurate and stable temperature for calibrating the sensor probe
- Thermocouples (TC) of the types K, J, N, E,R, T, B, S, Land U Resistance thermometers (RTD): Pt 100, Pt 500 and Pt 1000 in 2, 3 or 4 wire
- Optional accessories: 1. Adaptor sleeves with inside diameter between 1.5mm and 25mm in steps of 0.5mm
 - 2. Software for setting temperature, processing report
 - 3. DKD-Certificate (acc.guidline DKD-R5-4), SIKA work certificate

Model	TP38 165	TP38 600
Temperature range	-30°C ~165°C	+40°C~600°C
Tolerance	±0.1K	±0.1K
Stability	±0.01K	±0.03K
Resolution		±0.01K
No. of test piece		1
Tank bore/ depth	28mm dia/150mm depth	
Computer interface		RS-232C



TP17000 Series Temperature Calibrator

Test piece fixture:

adapter sleeves: Inside diameter between 1.5mm and 2.5mm in steps of 0.5mm

Model	TP17450	TP17450S	TP17650S	TP17650	TP17650M
Temperature range	Ambient temp	erature to 450°C	Ambient t	emperature	e to 650°C
Bath temperature control	Digital PID cor	ntroller , automation	fine adjustm	nent with so	ftstart for fan
Tolerance	±0.6℃	±0.3℃	±0.4℃	±0.8℃	±1 ℃
Stability	±0.1℃	±0.05°C	±0.05°℃	±0.1°C	±0.1℃
Resolution		0.1℃			1℃
Test piece fixture					

Test piece fixture		
Block material		Brass
Bock bore/ depth	60mm dia./ 150mm	28mm dia./ 150mm

Metal block

TP M(S) Series micro calibration bath

- Different calibration liquids with different calibration range can be covered for immersion thermometer or sensor probe
- Durable aluminum tank
- Optional accessory: Silicon oil (1L/bottle)

Model	TP M 165S	TP M 225S
Temperature range	-30°C ~165°C	Ambient temperature ~225°C
Tolerance	±0.1°C	±0.2℃
Stability	±0.05℃	±0.05℃
Resolution	0.1℃	0.1℃

Test piece fixture	
Tank material	Aluminum
Tank bore/ depth	60mm dia./ 150mm 170mm





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