Stationary Measuring Systems

Compare Analogue and Compare Digital – the modular measuring system

With Compare "Analogue" and Compare "Digital" you can supervise on-site as well as keeping everything under control on your PC at the same time. By coupling a max. of 31 devices you can create modular systems with a maximum of 62 input and 62 output channels. Compare "Analogue" and Compare "Digital" are of course perfectly compatible with all Hydrotechnik sensors.

















- One or two analogue measuring inputs selectable for 0 to 20 mA, 4 to 20 mA and 0 to 10 V (Compare Analogue)
- One or two frequency inputs selectable (Compare Digital)
- 10 bit Analogue/Digital-converter (optional 12 bit)
- LED display, 6-digit, very good readability, even from greater distance
- Operation from the front panel
- Fitting dimensions 96 x 48 mm acc. to DIN 43718

- Recording of two min. and two max. values
- Optional: two limit values with potential-free change-over contact and two analog outputs 0 to 10 Volt or 0 to 20 mA or 4 to 20 mA
- Measuring rate ≥ 20 ms
- RS 232 interface
- Filter functions
- Data evaluation with HYDRO comsys
- Switchboard cut-out 45 x 93 mm (H x W)

Order data measuring instruments

Panel mounted instrument Compare "Analogue"



Power supply	Power supply Execution, 1 channel	
24 VDC	only digital display	3C3A-00-20.00
	analogue and relay output	3C3A-00-21.20
230 VAC	only digital display	3C2A-00-20.00
	analogue and relay output	3C2A-00-21.20

Power supply	Execution, 2 channels	Order number
24 VDC	only digital display	3C3B-00-20.00

Panel mounted instruments Compare "Digital" (frequency)



Power supply	Execution, 1 channel	Order number
24 VDC	only digital display	3C3D-00-20.00
	analogue and relay output	3C3D-00-21.20
230 VAC	only digital display	3C2D-00-20.00
	analogue and relay output	3C2D-00-21.20

Power supply	Execution, 2 channels	Order number
24 VDC	only digital display	3C3E-00-20.00

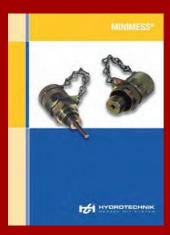
Technische Daten

	Multi-EPC	SEG 1060	Compare	Mult-Panel 8050
Stationary Measuring Systems			digital analog	
Measuring inputs		Total 2 inputs: analogue: 0 to 20, 4 to 20 mA, 0 to 10 V and digital: 5 to 15 V rectangle 1 Hz to 10 kHz	1 to 2 inputs with 1 calculation channel optional analogue: 0/4 to 20 mA, 0 to 10 V digital: 1Hz to 5 kHz	Total 16 input connection sockets 10x 6-pol, analogue signal inputs, 2x input jack for current +2 ADC and voltage +48 VDC, 0 to 20 mA, 4 to 20 mA, 0 to 10 VDC, ±10 VDC, 4x 6-pol, digital signal inputs 0,25Hz to 5 KHz, 6x CAN input (optional 14)
Standard measurands	Pressure	Pressure, temperature, frequency, volume flow, rotational speed, direct current, power, torque, way and speed a.s.o.	Quantity (counter), pressure, temperature, frequency, volume flow, rotational speed, direct current, power, torque, way and speed a.s.o.	Pressure, temperature, frequency, volume flow, rotational speed, direct current, power, torque, way and speed a.s.o.
Measuring rate	≥ 10 ms	≥ 40 ms	≥ 20 ms	Analogue inputs: 0,1 ms / 1 ms
Resolution A/D-converter		12 bit	10 bit (optional 12 bit)	Analogue inputs: 16 bit
Resolution A/D-converter		12 bit		Current, voltage input: 12 bit
Error limit	±0,5 % of final value	Analogue: ±0,2 % of final value Digital: ±1 digit	Analogue: ±0,5 % of final value Digital: ±1 digit	Analogue: ±0,1 % of final value Current, voltage input: ± 0,2 % of measured value
Extreme value memory		Min. and max. value memory	Min. and max. value memory	Min. and max. value memory of all measuring channels, selectable with key
Measured value memory	No memory	No memory	No memory	128 MB in max. 200 series, optional expandable to 1 GB max. 6 mio. values/series (24 MB), scan rate: 0,1 ms to 99 min
Trigger	No trigger	No trigger	No trigger	Settable, external triggering, pre-trigger
Display	4-digit, 7-segment, red, digit height 7 mm, casing rotatable at bottom pressure connector for 280°	14 mm LED 7-segment display in red	14 mm LED 7-segment display in red	8/16 presentable channels with 14 mm LED 7-segment displays in red (30 channels via PC)
Interfaces	No interfaces	No interfaces	RS 232	RS 232, USB, CAN, Centronics, LVDS
Power supply	15 to 30 VDC, nominal 24 VDC	24 VDC ±25 % 230 AC ±10 %/50 Hz	24 VDC ±25 % 230 VAC ±10 %/50 Hz opt. with 110 VAC/60 Hz	With direct current 24 VDC, with protection against reverse-polarity and over-voltage, the device is equipped with self-reversing fuse resistors
CE labelling	EN 61000-6-4 and EN 61000-6-2	EN 50081-1 and EN 50082-1	EN 50081-1 and EN 50082-1	EN 50081-1 and EN 50082-1
Protection type	IP 67	Front IP 65, mounted	Front IP 65, mounted	Device front: IP 40; casing: IP 40; measuring inputs: IP 40
Ambient conditions	Operation temperature: -20 °C to +85 °C	Operation temperature: -20 °C to +50 °C	Operation temperature: 0 °C to +50 °C	Operation temp.: 0 °C to +60 °C relative humidity 0 % to 85 % (not condensing), storage: -20 °C to +60 °C
General	Material of parts with medium contact high-grade steel 1.4301, membrane 1.4542	ABS plastic	ABS plastic	Housing material: aluminium powder coated RAL 3004
	Dimensions: est. 120 x 65 x 33 mm	Dimensions: est. 48 x 96 x 101 mm	Dimensions: est. 48 x 96 x 110 mm	Dalla conformity
	RoHs conformity Weight: 0,35 kg	RoHs conformity Weight: est. 0,25 kg	RoHs conformity Weight: est. 0,35 kg	RoHs conformity
Outputs	Analogue outputs: 0-20 mA or 4-20 mA	Analogue outputs: 0-20 mA or 0-10 V 4-20 mA settable with software	Opt. potential-free relay changer and closer 230 VAC/1 A 24 VDC/3 A	2 analogue outputs for the emission of signals from signal generator or to transfer measured values of a measuring channel input, 4 digital outputs (1x trigger output) to solve control functions

Further products
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