

## CCM-K-10



- battery powered digital pressure gauge
- nominal pressure: from 0...1.6 bar up to 0...250 bar
- ceramic sensor
- accuracy 0,5 % span
- adjustable, display housing Ø 63 mm
- LC display: 4.5-digit 7-segment display
- standard battery CR 2450, operation period > 1.500 h
- min / max function with reset function
- setting of pressure unit (bar, mbar, psi, MPa, mH<sub>2</sub>O)
- automatic switch-off configuration

The compact low-cost digital pressure gauge **CCM-K-10** is battery-powered and has an adjustable housing; it is thus extremely suitable for mobile pressure monitoring. The 4.5-digit LC-display indicates the battery status, the measurement value as well as the unit, this enables a fast and precise reading.

It is possible to switch between the most common units (bar, psi, mH<sub>2</sub>O, MPa). Additional functions as auto-zero, min / max values and an automatic switching-off complete the CCM-K-10 profile.

### PREFERRED AREAS OF USE ARE



Mobile Pressure Monitoring  
Plant and Machine Engineering  
Pneumatics / Hydraulics



Environmental Engineering  
(water – sewage – recycling)

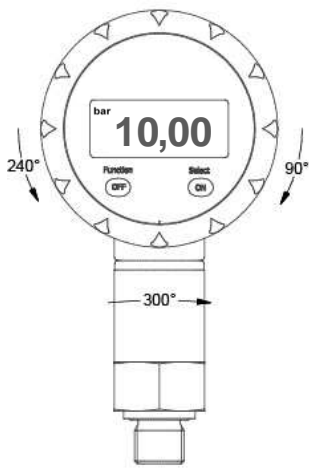
### TECHNICAL DATA

Input Pressure														
Nominal pressure gauge	[bar]	1.6	2.5	4	6	10	16	25	40	60	100	160	250	
Overpressure	[bar]	4	4	10	10	20	40	40	100	100	200	400	400	
Burst pressure	[bar]	7	7	15	15	35	70	70	150	150	250	450	450	
Vacuum resistance		unlimited												
Performance														
Accuracy <sup>1</sup>		± 0.5 % span BFSL (1 % span IEC)												
Measuring rate		1/sec												
Long term stability		± 0.3 % span / year												
<sup>1</sup> accuracy according to IEC 60770 - minimum value setting (non-linearity, hysteresis, repeatability)														
Thermal effects (Offset and Span)														
Tolerance band		± 0.5 % span / 10K (typ.)		in compensated range 0... 50 °C										
Permissible temperatures														
Permissible temperatures		medium: -25... 85 °C				environment 0... 70 °C				storage: 0... 70 °C				
Materials														
Pressure port / housing		stainless steel 1.4301 (304)												
Display housing		PA 6.6, Polycarbonate												
Seals (media wetted)		FKM								others on request				
Diaphragm		ceramics Al <sub>2</sub> O <sub>3</sub> 96 %												
Media wetted parts		pressure port, seals, diaphragm												
Miscellaneous														
Display		LC-Display, visible range 36 x 15 mm; 4.5-digit 7-segment-display, digit size 8.5 mm, range of indication ±1999 decimal place is calculated automatically by device considering range and accuracy - customer-setting not possible												
Electromagnetic compatibility		emission and immunity according to EN 61326												
Supply		3 V lithium battery (CR 2450)												
Data storage		EEPROM (non-volatile)												
Ingress protection		IP 65												
Installation position		any												
Weight		plastic: approx. 150 g												
Operational life of battery		min. 1500 h with permanent operation												
Mech. operational life		100 million load cycles												
CE-conformity		EMC directive 2014/30/EU						pressure equipment directive: 2014/68/EU (Mbdul A) <sup>2</sup>						
<sup>2</sup> This directive is only valid for devices with maximum permissible overpressure > 200 bar.														

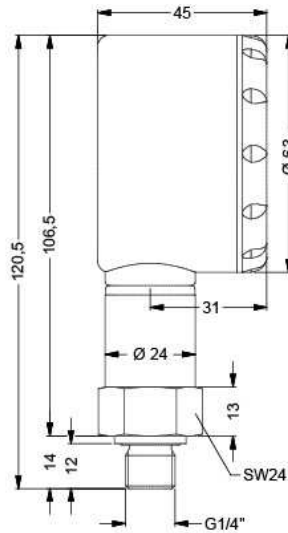


**DIMENSION DRAWINGS**

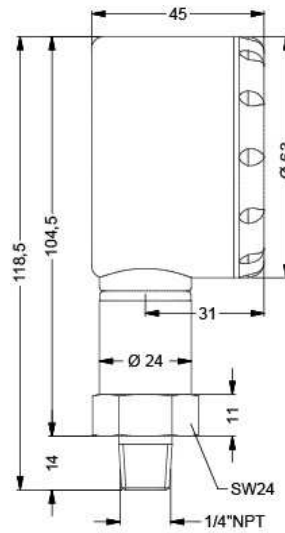
display housing plastic



G1/4" DIN 3852



1/4" NPT



**ORDER CODE**

CCM-K-10-[ ]-[ ]-[ ]-[ ]-[0]-[ ]-[0 K 0]-[ ]-[ ]-[ ]-[ ]-[N]-[ ]-[ ]

<b>Pressure</b>	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Gauge</b>	M	0	4	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Input [bar]</b>	0 ... 1,6	1	6	0	1	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
	0 ... 2,5	2	5	0	1	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
	0 ... 4	4	0	0	1	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
	0 ... 6	6	0	0	1	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
	0 ... 10	1	0	0	2	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
	0 ... 16	1	6	0	2	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
	0 ... 25	2	5	0	2	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
	0 ... 40	4	0	0	2	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
	0 ... 60	6	0	0	2	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
	0 ... 100	1	0	0	3	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
	0 ... 160	1	6	0	3	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
	0 ... 250	2	5	0	3	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Customer</b>		9	9	9	9	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Customer underpressure</b>		X	X	X	X	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Accuracy</b>	0,5 % BFSL (1 % span IEC)	B	8	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Customer</b>		9	9	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Mechanical connection</b>	G 1/2" EN 837	2	0	0	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
	G 1/4" DIN 3852	3	0	0	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
	1/4" NPT	N	4	0	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Customer</b>		9	9	9	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Seals</b>	Viton (FKM)	1	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Customer</b>		9	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Pressure port</b>	Stainless steel 1.4404 (316 L)	2	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Customer</b>		9	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Diaphragm</b>	Ceramic Al <sub>2</sub> O <sub>3</sub> 96 %	2	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Customer</b>		9	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Special version</b>	Standard	0	0	0	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
<b>Customer</b>		9	9	9	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]

Manufacturer reserves the right to change sensor specifications without further notice.



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