

Media 7 Differential Pressure Meter



With remote data transmission

- Liquid level and differential pressure measurements in pressure tanks, especially for cryogenic gases
- Integrated GSM module for remote data transmission
- Non-contact sensor
- Internal 60 bar absolute pressure sensor
- Modular design
- Easy to install or exchange optional additional functions
- Power supply unit with standby power supply (SPS)
- 4" backlit graphics display with heating
- Easy operation using four capacitive keys



SAM[®] TANK MANAGEMENT

SAM[®]
DIGITAL

Media 7 Differential Pressure Meter

Technical data				
Nominal pressure	PN 60, overloadable on one side up to 60 bar; oxygen: PN 50, overloadable on one side within the adjusted system pressure			
Characteristic	Differential pressure proportional to the tank geometry			
Measuring range in mbar	0 to 160	0 to 600	0 to 1600	0 to 3600
Adjustable measuring span in mbar				
Class ± 1 %	–	≤ 630 to ≥ 150	≤ 1700 to ≥ 320	≤ 3800 to ≥ 720
Class ± 1.6 %	≤ 170 to ≥ 60	≤ 150 to ≥ 120	–	–
Internal absolute pressure sensor				
Measuring range	0 to 60 bar			
Deviation from terminal-based linearity	$< \pm 1.6$ %			
Requirements				
EMC	Devices with a CE marking fulfill the requirements of the Directive 2014/30/EU. Compliance with EN 61000-6-2, EN 61000-6-3, EN 61326-1 and NAMUR Recommendation NE 21.			
Degree of protection	IP 67 according to IEC 60529 (VDE 470 Part 1, 2014-09)			
Explosion protection				
Type of protection	ATEX/IECEx: Ex ia IIB T4 Gb			
Power supply				
Two-wire version	4 to 20 mA			
24 V version	18 to 36 V DC			
GSM module for remote data transmission				
GSM frequency	EGSM 850/900/1800/1900 MHz			
Power output	Class 4 (2 W) with 850/900 MHz; Class 1 (1 W) with 1800/1900 MHz			
SIM card	M2M Industrial Plug in High Temperature, operating temperature: -40 to $+105$ °C			
Operating temperature	-40 to $+70$ °C (with active heating control)			

Optional additional functions

- AO (analog output) module for analog output of an internal 4 to 20 mA signal
- AI (analog input) module for analog input of an external 4 to 20 mA signal
- AIA (analog input active) module for analog input of an external 4 to 20 mA signal as well as for output of 12 V to power external equipment
- GSM module to establish connection between the Media 7 Differential Pressure Meter and the SAM TANK MANAGEMENT web interface



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