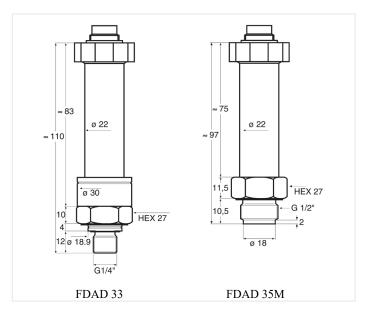
ALMEMO® D6 Pressure

High-precision pressure sensor FDAD33/35M Very accurate over a wide temperature range, digital sensor with ALMEMO® D6 plug





- Stable piezo-resistive transducer with integrated A/D converter and signal processor
- Temperature-dependence and non-linearity are eliminated by means of mathematical compensation; this ensures a high level of accuracy.
- Digital output of measured value
- The current value is measured at the sensor's high sampling
- To acquire transitory pressure fluctuations and pressure peaks the maximum value, minimum value, and average value are calculated from the current values in the ALMEMO® D6 plug and output in three function channels.
- One measuring channel is programmed (at our factory): Pressure(bar,p)Uptothreefunctionchannelscanalsobeactivated (via LMEMO® device V6): Maximum value, minimum value, average value. A complete configuration can be carried out either on the ALMEMO® V7 measuring instrument or directly on the PC with the USB adapter cable ZA 1919 AKUV (see chapter ALMEMO® "Network technology").

General features and accessories, ALMEMO® D6 sensors: see page 01.08

Technical data

Digital pressure sensor (including A/D converter)				
Pressure range	1 to 1000 bar			
	see under variants			
Relative pressure	Zero-point at ambient			
	atmospheric pressure, current			
Overpressure	Zero-point at ambient			
	atmosph. pressure, production			
Absolute pressure	Zero-point, vacuum			
Pressure connection				
FDAD33	Outside thread G 1/4"			
	Diaphragm, internal			
FDAD35M	Diaphragm, flush with front			
	Outside thread G 1/2"			
	In pressure range 700/1000 bar			
	Outside thread G 3/4"			
Storage / operating temperature -40 to +120 °C				
Accuracy				
Error margin* at +10 to +40	°C 0.05 % of final value			
Error margin* at -10 to +80	°C 0.1 % of final value			
*Linearity, hysteresis, reproducibility, temperature coefficients,				
zero-point				

Sampling rate, internal	200 Hz		
Material in contact with media	ım Stainless steel, AISI 316L,		
	Viton		
Protection	IP65		
Dimensions	see dimensional drawings		
Sensor connector	Built-in plug		
ALMEMO® connecting cable	Coupling, 2-meter PVC cable,		
	ALMEMO® D6 plug		
ALMEMO® D6 plug			
Refresh time	0.005 seconds for all channels		
Output to the	With the conversion rate of the		
ALMEMO® device	ALMEMO® device: max. 10 100 Hz		
	depending on the device		
	and configuration		
Delay after sleep mode	1 second		
Supply voltage	6 to 13 VDC		
Current consumption	approx. 11 mA		

Pressure ALMEMO® D6

Options	Order no.
Connecting cable Total length = 5 m	OD0D33L05
Connecting cable Total length = 10 m	OD0D33L10
Greater lengths up to 100 meters on request	

Variants						
Digital pressure sensor, plug connection, 2-meter connecting cable with ALMEMO® D6 plug, factory test certificate						
Pressure range	Resolution	Overload	Order no.	Order no.		
			Diaphragm, internal	Diaphragm, flush with front		
Relative pressure						
0 to 1 bar	0.0001 bar	2 bar	FDAD3301R	FDAD35M01R		
0 to 3 bar	0.0001 bar	5 bar	FDAD3302R	FDAD35M02R		
0 to 10 bar	0.001 bar	20 bar	FDAD3303R	FDAD35M03R		
0 to 30 bar	0.001 bar	60 bar	FDAD3304R	FDAD35M04R		
Special ranges -1 1 / 3 / 10 bar on request						
Overpressure						
0 to 100 bar	0.01 bar	200 bar	FDAD3305U	FDAD35M05U		
0 to 300 bar	0.01 bar	400 bar	FDAD3306U	FDAD35M06U		
0 to 700 bar	0.1 bar	1000 bar	FDAD3307U	FDAD35M07U		
0 to 1000 bar	0.1 bar	1000 bar	FDAD3308U	FDAD35M08U		
Absolute pressure						
0,8 to 1,2 bar	0.0001 bar	2 bar	FDAD3300A	FDAD35M00A		
0 to 1 bar	0.0001 bar	2 bar	FDAD3301A	FDAD35M01A		
0 to 3 bar	0.0001 bar	5 bar	FDAD3302A	FDAD35M02A		
0 to 10 bar	0.001 bar	20 bar	FDAD3303A	FDAD35M03A		
0 to 30 bar	0.001 bar	60 bar	FDAD3304A	FDAD35M04A		

DAkkS or factory calibration KD9xxx pressure for digital sensor (see chapter Calibration certificates).

DAkkS calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.