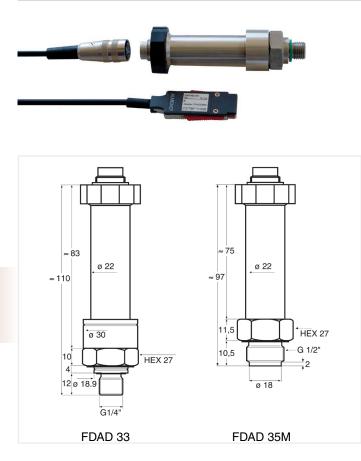
Pressure

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 rate.
- 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)

Up to three function channels can also be activated (via LMEMO[®] device V6) :

Maximum value, minimum value, average value. This device can be completely configured directly on a PC via USB adapter cable ZA 1919 AKUV. (see "General accessories for ALMEMO[®] D6 sensors" page 04.05).

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

Digital pressure sensor (including A/D converter)		Sampling rate, internal	200 Hz	
Pressure range	1 to 1000 bar see under variants	Material in contact with medium Stainless steel, AISI 316L, Viton		
Relative pressure	Zero-point at ambient	Protection	IP65	
Overpressure	atmospheric pressure, current Zero-point at ambient atmosph. pressure, production	Dimensions	see dimensional drawings	
Overpressure		Sensor connector	Built-in plug	
Absolute pressure	Zero-point, vacuum	ALMEMO [®] connecting cable	ble Coupling, 2-meter PVC cable,	
Pressure connection			ALMEMO [®] D6 plug	
FDAD33	Outside thread G ¹ / ₄ "	ALMEMO [®] D6 plug		
FDAD35M	Diaphragm, internal Diaphragm, flush with front Outside thread G 1/2" In pressure range 700/1000 bar Outside thread G 3/4"	Refresh time	0.005 seconds for all channels	
		Setting time	0.6 seconds	
		Delay after sleep mode	1 second	
		Supply voltage	6 to 13 VDC	
Storage / operating temperature -40 to +120 °C		Current consumption	approx. 11 mA	
Accuracy				
Error margin* at -10 to -	+40 °C 0.05 % of final value			
Error margin* at -10 to -	$+80 ^{\circ}\mathrm{C}$ 0.1 % of final value			
*Linearity, hysteresis, re	producibility, temperature coefficients,			

zero-point

Technical data

ALMEMO® D6

Pressure

Order no.

OD0D33L05

OD0D33L10

Options

Connecting cable Total length = 5 m

Connecting cable Total length = 10 m

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.