

Expert 700

HYDROSTATIC LEVEL TRANSMITTER

2.73

General

MJK Expert™ 700 hydrostatic level transmitter has a small external diameter - 16 mm and is made of 316L stainless steel.

The transmitter is designed for measuring levels in water wells.

The MJK Expert™ 700 is an accurate 2-wire transmitter with a piezoresistive measuring system with direct air pressure and temperature compensation and built-in surge protection.

Features

- Stainless steel diaphragm, steel AISI 316L body
- 2-wire 4 - 20 mA loop powered, 10-30VDC
- Digital RS485 Modbus output
- Surge resistance
- Measuring ranges from 0 - 30 m or 0-100 m

Applications

- Process water
- Drinking water
- Ground water bore holes
- In-fill sites



DATASHEET

EN 2.73 EXPERT 700 DATASHEET 1910

mjk
a xylem brand

Expert 700 Level Transmitter

Specifications

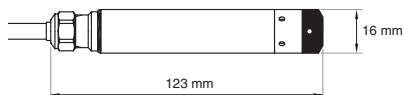
MJK Expert™ 700 Level Transmitter		
Nominal measuring range (mWG)	0 - 30 m	0 - 100 m
Measuring principle	Piezo-resistive (relative pressure)	
Min. programmable range	10 m	30 m
Max. programmable range	30 m	100 m
Non-standard range	Min. 0 - 10 m / Max. 0 - 300 m	
Max. overpressure	5 bar	20 bar
Temperature range	-20 °C to 50 °C	
Temperature deviation, zero point	Better than ± 0.02 % / °C	
Temperature deviation, full range	Better than ± 0.02 % / °C	
Linearity / Stability	Better than ± 0.5 % FS / ± 0.1 % FS	
Measurement accuracy	Better than ± 0.25 % FS @ 10 °C to 30 °C	
Long time stability	Better than ± 0.5 % FS per year	
Materials	Stainless Steel 316L (DIN 1.4435) / Viton® / PE	
Supply voltage	700/D	10 - 30 V DC (12 - 30 V DC for cable lengths above 100 m)
Output signal	700	2-wire 4 - 20 mA (passive transmitter) / RS485
	700D	RS485 Modbus level- and temperature transmitter signal.
Surge protection	Supply and RS485: 200A @ 8/20 µs Gnd/case: 2000A @ 8/20 µs	
Cable	5 x 0,25 mm ² , shielded, PE insulation	
Cable length [Ⓢ]	35 m	110 m
Enclosure	IP 68, withstands a static pressure equal to max. overpressure	
Weight (without cable)	0,2 kg	
Approvals	CE Conformity EN61000-6-1 to -6-4	

Ⓢ Can be delivered with other cable lengths on request.

Order Numbers

Expert™ 700, Piezoresistive, Relative Pressure	
203816	Expert™ 700 range 0-30m, 35m cable
203817	Expert™ 700 range 0-100m, 110m cable
Expert™ 700D, Piezoresistive, Relative Pressure	
203716	Expert™ 700 digital range 0-30m, 35m cable
203717	Expert™ 700 digital range 0-100m, 110m cable
203718	Expert™ 700 digital range 0-30m, 35m cable w. connector
203719	Expert™ 700 digital range 0-100m, 110m cable w. connector
Accessories	
691110	Cable for Expert™ 700, per meter
202920	Cable length, not standard

Dimensions / Electrical Connection



Wiring / Connecting	
Black	Vcc + (24VDC), output 4-20mA
White	GND
Blue	RS 485A
Yellow	RS 485B
Red	NC
Air pressure compensation tube	