Expert[™] 7060D & 7070D

2.78

HYDROSTATIC DIGITAL LEVEL TRANSMITTERS

General

MJK Expert[™] 7060D and 7070D hydrostatic digital level transmitters are precision transmitters with built-in Modbus protocol for measurement readout and remote calibration during operation. They have been developed for low-energy installations with MJK Chatter[™] Datalogger.

MJK Expert[™] 7060D Level Transmitter is a robust all-round transmitter perfect for level measurements in storage tanks, borings and pumpstations in drinking water and wastewater plants.

MJK Expert[™] 7070D Level Transmitter has the same specifications as the 7060D-transmitter, but additionally it has a very small outer diameter and is manufacured in AISI 316L acid-proof, stainless steel. The transmitter has been specially designed for operation in confined spaces like borings, wells og drinking water containers.

The transmitters are supplied with a piezo-resistivive measuring system and direct airpressure compensation (relative versions) via an integrated ventilation tube in the cable. All transmitters have a built-in temperature compensation.

Features

- Piezo-resisitive measuring system. Stainless steel diaphragm
- Low power 3,6-30VDC supply
- Very low drift (<0.5%) and high accuracy (±0.25%) year after year
- Field re-programmable for zero offset calibration
- Steel reinforced PUR cable with high tensile strength
- 7060D iron bar reinforced shield body with epoxy potting
- 7070D Ø22 mm slim body with epoxy potting
- Measuring ranges from 0 3 m to 0 300 m.

Applications

- Process water
- Drinking water
- Ground water bore holes
- Reservoirs.

DATASHEET EN 2.78 EXPERT 7060D/7070D DATASHEET 2103





Expert™ 7060D & 7070D Hydrostatic Digital Level Transmitters

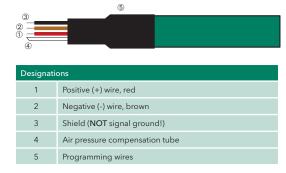


Specifications

Expert™ 7060D/7070D Level Transmitter					
Nominal measuring range	0 - 3 m	0 -10 m	0-30 m	0-100 m	
Measuring principle	Piezo-resistive (relativ pressure)			(SG, sealed gauge)	
Max. overpressure	3 bar	3 bar	3 bar	11 bar	
Temperature range	-10 °C to 60 °C				
Temp. deviation, zero point	Better than ± 0.02 % / °C				
Temp. deviation, Full range	Better than ± 0.02 % / °C				
Linearity / Stability	Better than \pm 0.5 % FS / \pm 0.1 % FS				
Measurement accuracy	Better than \pm 0.25 % FS @ +10 to 30 °C Better than \pm 0.5 % FS @ full temperature range				
Long time stability	Better than \pm 0.5 % FS a year				
Materials	Encapsulation: PP Membrane: Stainless steel (1.4404 / AISI 316 L)				
Supply voltage	3,5-30 VDC (min.12 VDC for cable lengths longer than 100 m)				
Output signal	Digital signal : 2-wire RS485 Modbus level- and temperature transmitter signal.				
Cable	$2 \times 0.5 \text{ mm}^2$ (pressure) + 5 x 0,15 mm ² (data), shielded, PUR insulation				
Connections	Digital with connector, 10 pole male, IP 68 connected to counterpart				
Cable length®	12 m	12 m	35 m	110 m	
Enclosure	IP 68; resists a static pressure equivalent to max. measuring range				
Test approvals	CE directive: 2014/30/EU, EN 61326-1, 61326-2-3				

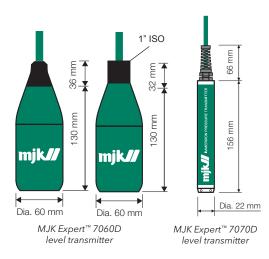
^①Can be delivered with other cable lengths on request.

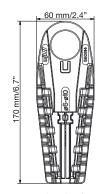
Electrical Connections Dimensions





© Programming 7070		
Green	N/C	
Brown	N/C	
Yellow	RS485 B	
White	N/C	
Grey	RS485 A	





Mounting bracket for MJK Expert™ 7060D level transmitter

Expert™ 7060D & 7070D Hydrostatic Digital Level Transmitters



Accessories



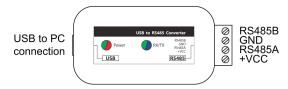
840100 Expert Link for Windows for support of the Expert[™] series. Use with 203992 PC (USB) Interface.

Information (pressure- and temperature range, version of software etc.):

- Indication of actual pressure value
- Selection of units
- Setting of a new zero and gain for the transmitter
- Setting of the instrument address (for Busoperation and real-time value.

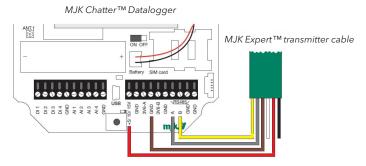
Expert Link is free of charge. Link to download center on www.mjk.com.





203992 PC Interface used for connecting Expert[™] Hydrostatic Level Transmitters to a PC using Expert Link.

Electrical Connections Example for Chatter™ Datalogger



Expert[™] 7060D & 7070D Hydrostatic Digital Level Transmitters



Order Numbers

203761	Hydrostatic transmitter 7060D range 0-3m Digital/Analog			
203762	Hydrostatic transmitter 7060D range 0-10m Digital/Analog			
203763	Hydrostatic transmitter 7060D range 0-30m Digital/Analog			
203764	Hydrostatic transmitter 7060D range 0-3m Digital/Analog w/con.			
203765	Hydrostatic transmitter 7060D range 0-10m Digital/Analog w/con.			
Expert™ 7070I	D, Piezo Resistive, Reletive Pressure - Digital RS485/Supply 3.6 - 30VDC			
203781	Hydrostatic transmitter 7070D range 0-3m digital/analog			
203782	Hydrostatic transmitter 7070D range 0-10m digital/analog			
203783	Hydrostatic transmitter 7070D range 0-30m digital/analog			
203784	Hydrostatic transmitter 7070D range 0-3m digital/analog w/con.			
203785	Hydrostatic transmitter 7070D range 0-10m digital/analog w/con.			
203786	Hydrostatic transmitter 7070D range 0-30m digital/analog w/con.			
Expert™ 7070I	D, Piezo Resistive, Absolute Pressure - Digital RS485/Supply 3.6 - 12VDC			
203790	Hydrostatic transmitter 7070D (ABS) range 0-4bar. Out. Digital			
203790-CON	Hydrostatic transmitter 7070D (ABS) range 0-4bar w con. out. Digital			
Expert™ 7070I	D, Piezo Resistive, Sealed Gate - Digital RS485/Supply 3.6 - 30VDC			
203791	Hydrostatic transmitter 7070D (SG) range 0-100m (0-10bar)			
203793	Hydrostatic transmitter 7070D (SG) range 0-100m (0-10bar) w/con			
203792	Hydrostatic transmitter 7070D (SG) range 0-300m (0-30bar)			

Order Numbers Accessories

Order Numbers Accessories		
202920	Cable length, not standard	
202921	Price adder 1" ISO thread f/7060/3400 Pressure Transmitter	
203992	PC Interface (USB/RS485) for Expert™ Transmitter 3400D/7060/7070	



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