# Expert<sup>™</sup> 7060D & 7070D

2.78

HYDROSTATIC DIGITAL LEVEL TRANSMITTERS

#### General

MJK Expert<sup>™</sup> 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<sup>™</sup> Datalogger.

MJK Expert<sup>™</sup> 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<sup>™</sup> 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 2109





# Expert™ 7060D & 7070D Hydrostatic Digital Level Transmitters

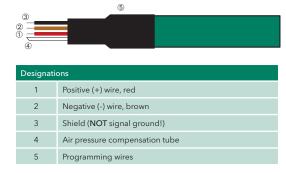


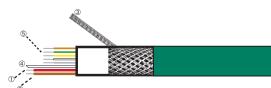
### Specifications

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 ± 0.5 % FS a yea	r			
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 10	0 m)		
Output signal	Digital signal : 2-wire RS485 Modbus level- and temperature transmitter signal.				
Cable	$2 \times 0.5 \text{ mm}^2$ (pressure) + $5 \times 0.15 \text{ mm}^2$ (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					

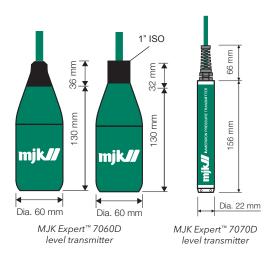
<sup>①</sup>Can be delivered with other cable lengths on request.

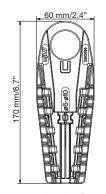
### Electrical Connections Dimensions





© 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



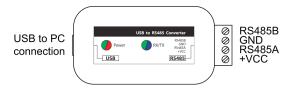
840100 Expert Link for Windows for support of the Expert<sup>™</sup> series. Use with 203992 PC (USB) Interface.

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.

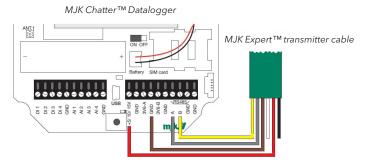
Expert Link is free of charge. Link to download center on www.mjk.com.





**203992 PC Interface** used for connecting Expert<sup>™</sup> Hydrostatic Level Transmitters to a PC using Expert Link.

### Electrical Connections Example for Chatter™ Datalogger



### Expert<sup>™</sup> 7060D & 7070D Hydrostatic Digital Level Transmitters



### Order Numbers

### Expert™ 7060D, Piezo Resistive, Reletive Pressure - Digital RS485/Supply 3.6 - 30VDC

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™ 7070D, 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.	

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 <sup>™</sup> Transmitter 3400D/7060/7070	



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