

# Expert™ 7060

HYDROSTATIC LEVEL TRANSMITTER

2.75

## General

The MJK Expert™ 7060 hydrostatic level transmitter is ideal for measuring levels in storage tanks, wet wells and pump stations in both water and wastewater plants.

The Expert™ 7060 has a piezoresistive measuring system and built-in breather tube for direct air pressure compensation. The design is very robust and it is a useful all-round transmitter, used in waterworks, sewage treatment plants and industrial applications.

The Expert™ 7060D hydrostatic digital/analog level transmitter is a variant of the 7060 and is a precision transmitter with built-in ModBus protocol for measurement readout and remote calibration during operation. It is developed for low-energy installations and hook-up with MJK Chatter™ Datalogger.

The Expert™ 7060A hydrostatic digital/analog level transmitter is also a variant of the 7060 and offers a voltage output linear to the level. The transmitter is typically used in combination with the MJK Chatter™ Datalogger and controllers with analog DC voltage input.

The design without sharp edges prevents particles, textiles and paper from sticking to the housing or the diaphragm.

## Features

- Stainless steel diaphragm, polypropylene body
- 2-wire 4 - 20 mA loop powered, 10-30VDC
- Low voltage versions digital RS485 supply voltage 3,6-30VDC
- Very low drift (<0.5%) and high accuracy ( $\pm 0.25\%$ ) year after year
- Field re-programmable for custom ranges and zero offset calibration
- Measuring ranges from 0 - 3 m to 0 - 30 m
- Steel reinforced PUR cable with high tensile strength (1000kg)
- Iron bar reinforced shield body with epoxy potting.

## Applications

- Waste water
- Process water
- Drinking water.

## DATASHEET

EN 2.75 EXPERT 7060 DATASHEET 1907



**mjk**  
a xylem brand

# Expert™ 7060 Level Transmitter

## Specifications

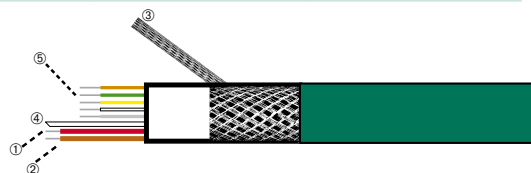
Expert 7060 Level Transmitter				
Nominal measuring range	0 - 3 m	0 - 5 m	0 - 10 m	0 - 30 m
Measuring principle	Piezo-resistive (relative pressure)			
Min. programmable range	0 - 2 m	0 - 2 m	0 - 2 m	0 - 10 m
Max. programmable range	0 - 12 m	0 - 12 m	0 - 12 m	0 - 60 m
Non-standard range	Min. 0 - 2 m / Max. 0 - 300 m			
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 ± 0.5 % FS / ± 0.1 % FS			
Measurement accuracy	Better than ± 0.25 % FS @ +10 to 30° C Better than ± 0.5 % FS @ full temperature range			
Long time stability	Better than ± 0.5 % FS per year			
Materials	Housing: PP / Diaphragm: Stainless steel (1.4404 / AISI 316 L)			
Supply voltage	7060	10 - 30 VDC (12 - 30 V DC for cable lengths above 100 m)		
	7060A	11 - 30 VDC		
	7060D	3,6 - 30 VDC/ RS485		
Output signal	7060	2-wire 4 - 20 mA (passive transmitter) / ModBus RS485		
	7060A	0 - 5 VDC / ModBus RS485		
	7060D	Digital signal: RS485 ModBus level- and temperature transmitter signal.		
Cable	2 × 0,5 mm <sup>2</sup> (pressure) + 5 × 0,15 mm <sup>2</sup> (data), shielded, PUR insulation, 1000kg pull strength			
Cable length <sup>①</sup>	12 m	12 m	12 m	35 m
Enclosure	IP 68, withstands a static pressure equal to max. overpressure			
Test Approvals	CE directive: 89/336/EEC, 2004/108/EC, 1999/EC EN 61326-1, 61326-2-3, EN 55011, 61000-4-2, 61000-4-3, 61000-4-4, 61000-4-5, 61000-4-6, 61000-4-8 EN 61000-6-4 2007-02-19, EN 61000-6-2 2005-09-08,			

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

## Electrical Connections

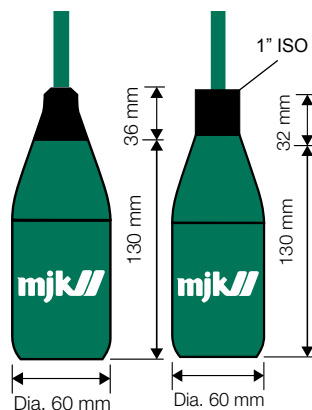


Designations		
1	Red	Positive (+) wire
2	Brown	Negative (-) wire
3	Black	Shield (NOT signal ground!)
4	Tube	Air pressure compensation tube
5	Hidden	Programming wires

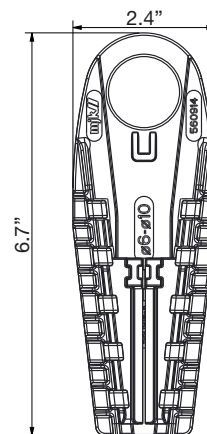


⑤ Programming	
Green	N/C
Brown	N/C
Yellow	RS485 B
White	N/C
Grey	RS485 A

## Dimensions



MJK Expert™ 7060 level transmitter



560914 Plastic mounting bracket for MJK Expert™ 7060 Level Transmitter (1 pcs. is delivered with each transmitter)

# Expert™ 7060 Level Transmitter

## Accessories



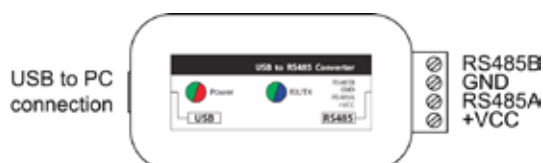
Expert Link Software

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 and adjusting measuring ranges
- Selection of units
- Setting of a new zero and gain for the transmitter
- Reprogramming of the analog output (i.e. different unit, other pressure range)
- Setting of the instrument address (for Bus-operation and real-time value).

Expert Link is free of charge. Link to download center on [www.mjk.com](http://www.mjk.com).



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



202922 Transmitter connection box IP 67 enclosure for a safe connection of 4-20 mA cables.Ⓞ



200126 Field indicator 531, display insert, 4-20 mA loop powered, IP 65 enclosure. For instant local readout.Ⓞ

Ⓞ For a complete display you need both the 200126 Field indicator 531 display insert and the 202922 Transmitter connection box.

# Expert™ 7060 Level Transmitter

## Order Numbers

Expert™ 7050, Piezoresistive, Absolute Pressure, 4-20mA/Supply 10 - 30VDC	
202912	Pressure transmitter 7050 Range 0-2 bar (ABS)

Expert™ 7060, Piezoresistive, Relative Pressure, 4-20mA/Supply 10 - 30VDC	
202930	Hydrostatic transmitter 7060 range 0-3m
202932	Hydrostatic transmitter 7060 range 0-5m
202935	Hydrostatic transmitter 7060 range 0-10m
202940	Hydrostatic transmitter 7060 range 0-30m

Expert™ 7060D, Piezoresistive, Relative Pressure - Digital RS485/Supply 3.6 - 30VDC	
203761	Hydrostatic transmitter 7060D range 0-3m digital
203762	Hydrostatic transmitter 7060D range 0-10m digital
203763	Hydrostatic transmitter 7060D range 0-30m digital
203764	Hydrostatic transmitter 7060D range 0-3m digital w/con.
203765	Hydrostatic transmitter 7060D range 0-10m digital w/con.

Expert™ 7060A, Piezoresistive, Relative Pressure, 0-5VDC/Supply 11 - 30VDC	
203772-2,5	Hydrostatic transmitter 7060A range 0-2,5m, out 0-5V
203772	Hydrostatic transmitter 7060A range 0-10m, out 0-5V

## Order Numbers Accessories

Expert™ Hydrostatic Transmitter Accessories	
109113	MJK product test certificate. Must be requested upon order!
200126	Field indicator 531, display insert, 4-20 mA loop powered
202918	Sacrificial copper ring for Expert™ 2100, 7050, 7060
202920⓪	Cable length, not standard
202921⓪	1" ISO thread for Expert™ 2100, 7060
202922	Transmitter connection box
202925	Not standard measuring range
203992	PC Interface (USB/RS485) for Expert™ Transmitter 3400D/7060/7070
560914	Plastic mounting bracket for Expert™ Transmitter, cable Ø6-10mm
561172	1" ISO Nut for sensor
691004⓪	Cable for Expert™ 3400 & 7060, PUR
840100	Expert Link

⓪MUST be ordered when ordering the Expert™ level transmitter, can only be mounted on factory.

⓪MUST be ordered when ordering the transmitter, the thread top can only be mounted on factory.