

# Expert 7060

HYDROSTATIC LEVEL TRANSMITTER

2.75

## General

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

Expert™ 7060 is ideal for measuring levels in storage tanks, wet wells and pump stations in both water and wastewater plants

MJK Expert™ 7060D hydrostatic digital/analog level transmitter 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 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 3,6-30V DC
- 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 1412

**mjk**  
a xylem brand

# Expert 7060 Level Transmitter

## Specifications

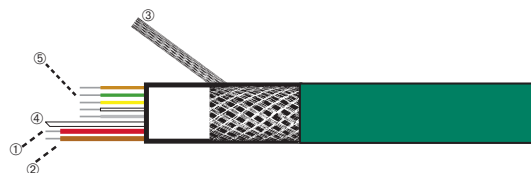
Expert 7060 Level Transmitter				
Nominal measuring range	0 - 3 m	0 - 5 m	0 - 10 m	0 - 30 m
Measuring principle	Piezo-resistive (relative pressure)			
Min. programmable range	0 - 2 m	0 - 2 m	0 - 2 m	0 - 10 m
Max. programmable range	0 - 12 m	0 - 12 m	0 - 12 m	0 - 60 m <sup>②</sup>
Non-standard range	Min. 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 V DC (12 - 30 V DC for cable lengths above 100 m)		
	7060D	3,6 - 30 VDC/ RS485		
Output signal	7060	2-wire 4 - 20 mA (passive transmitter) / Modbus RS 485		
	7060D	Digital signal: RS485 Modbus level- and temperature transmitter signal. Analog signal: 2-wire, 0.1 - 2.5 VDC		
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. <sup>②</sup>Can be delivered with up to 300m. range.

## Electrical Connections

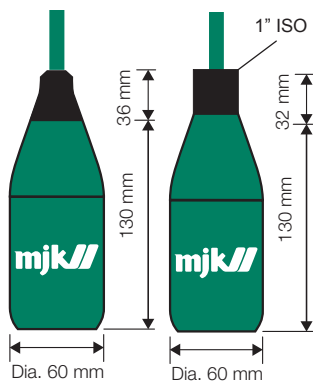


Designations		
1	Red	Positive (+) wire
2	Brown	Negative (-) wire
3	Black	Shield (NOT signal ground!)
4	Tube	Air pressure compensation tube
5	Hidden	Programming wires

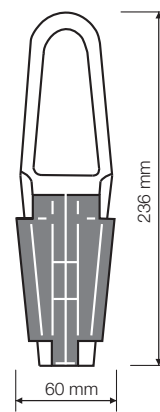


⑤ Programming	
Green	N/C
Brown	N/C
Yellow	RS485 B
White	N/C
Grey	RS485 A

## Dimensions



MJK Expert™ 7060 level transmitter



Mounting bracket for MJK Expert™ 7060 level transmitter

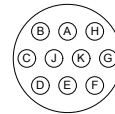
# Expert 7060 Level Transmitter

## 7060D Connector

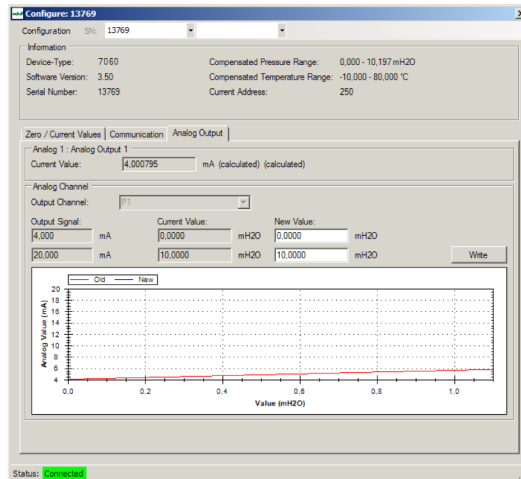
Wire color and connector pin coding

Color	Pin	Connection
Yellow	D	RS 485 B
Grey	E	RS 485 A
Brown	K	GND (ground)
White	B	n/c (signal 0,1-2,5 / 0,3-3,0 V DC)
Red	G	+5/10/15V (3,6 -30 V DC)
Black	F	n/c (shield)

Connector pins



## Read Link Software



Available from download center

840101 For support of the Expert 7060-7070, use with 203992 PC (USB)Interface For Win XP-7

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

- Indication of actual pressure value
- Selection of the 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)
- Data collection with graphs
- Fast read-out and viewing of the pressure signals in a graph

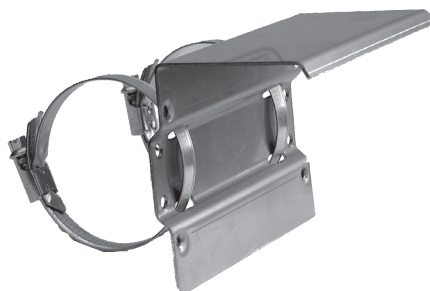
## Accessories



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



200126 Field indicator 531, display insert, 4-20mA loop powered, IP65 enclosure. For instant local readout.



200117 Rainroof/Sun Shield for 531, weather protection for display and connection box

# Expert 7060 Level Transmitter

## Order Numbers

Expert™ 7050, Piezo Resistive, absolute pressure	
202912	Pressure transmitter 7050-1413 0-2 bar (absolute pressure)

Expert™ 7060, Piezo Resistive, Hydrostatic Level Transmitter	
202930	Hydrostatic transmitter 7060-1413 range 0-3m
202932	Hydrostatic transmitter 7060-1443 range 0-5m
202935	Hydrostatic transmitter 7060-1423 range 0-10m
202940	Hydrostatic transmitter 7060-1433 range 0-30m

Expert™ 7060D, Piezo Resistive, Relative Pressure - Digital RS485/Low Voltage	
203761	Hydrostatic transmitter 7060 range 0-3m Digital/Analog
203762	Hydrostatic transmitter 7060 range 0-10m Digital/Analog
203763	Hydrostatic transmitter 7060 range 0-30m Digital/Analog
203764	Hydrostatic transmitter 7060 range 0-3m with con. Digital/Analog
203765	Hydrostatic transmitter 7060 range 0-10m with con. Digital/Analog

## Order Numbers Accessories

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200117	Rainroof/Sun Shield for 531, Display and connection box
202918	Sacrificial Copper Ring for 7050/7060
202920	Cable length, not standard
202921	Price adder 1" ISO thread f/7060/3400 Pressure Transmitter
202922	Transmitter connection box
202925	Not standard measuring range
560915	Mounting Bracket for Expert™ 2100, 7060, 3400
691014	Cable for Expert™ 7060 and 3400, PUR, per meter
203992	PC Interface (USB/RS485) for Expert 7060