



# Expert<sup>®</sup>

SUBMERSIBLE LEVEL TRANSMITTERS

**BROCHURE**

EN 2.75 EXPERT BROCHURE 1401



**mjk**   
a xylem brand

# OUTSTANDING DURABILITY AND HIGH PRECISION

MJK level transmitters are designed for level measurement by immersion in open channels gutters, ground water wells, reservoirs and tanks - even in potentially dangerous sites.

MJK level transmitters are robust and designed to withstand hard impacts in slurries, wastewater and sludge.

MJK level transmitters excel to the top of their category for their long lasting performance in wastewater treatment plants, pumping stations, waterworks and industrial plants.

Over the many years of being installed around the world, MJK level transmitters are well known for delivering high accuracy and stability, across a broad range of industrial and municipal environments.

Expert Level Transmitter 1400 and 3400 are approved for installation in hazardous areas plus have surge protection.



# MJK HYDROSTATIC TRANSMITTER ARE USED EVERYWHERE

*- even in some very harsh environments*



## WASTEWATER

For level measurement in tanks with sewage, storm flow basins, aeration tanks, sludge thickeners and have enough precision for level measurement for open channel flow measurement.

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## DRINKING WATER

Level measurement in water wells and tanks, level control in water towers, filter pools, ion exchangers and chemical mixing/precipitation tanks.



## GEO-TECHNICAL

Level measurement in tunnels, mines and dewatering under larger buildings.

## INDUSTRIAL

Measurement in all types of process tanks where with access from the surface, even in hazardous areas.



Our level transmitters have a sturdy design with housing in re-enforced plastic or stainless steel. Cables are insulated with PUR, and steel reinforced to achieve very high tensile strength. Sensing membranes are made with either ceramic or stainless steel. Outputs are analog two-wire 4-20 mA, voltage or digital Modbus RTU.

### Expert 700

Application: Water Wells  
Body: AISI 316L  
Diaphragm: AISI 316L  
Features: Outer diameter Ø 16 mm  
Output: Analog 4-20 mA

### Expert 7070

### Modbus

Application: Water Wells and Water Storage and Processing  
Housing: AISI 316L  
Diaphragm: AISI 316L  
Features: Outer diameter Ø 22 mm  
Output: Analog 4-20 mA, voltage or Modbus

### Expert 7070T

### Modbus

Application: Water Wells and Water Storage and Processing  
Housing: AISI 316L  
Diaphragm: AISI 316L  
Features: Outer diameter Ø 22 mm  
Output: Analog 4-20 mA, spænding eller Modbus



Expert 3400 - med gevind



Expert 7060



## CHARACTERISTICS



### Expert 1400



Application: Water Wells and Water Storage and Processing

Housing: AISI 316

Diaphragm: Ceramic

Features: Outer diameter Ø 22 mm

Output: Analog 4-20 mA

### Expert 7060

#### Modbus

Application: Wastewater and process water

Housing: PP

Diaphragm: AISI 316

Features: Outer diameter Ø 60 mm

Output: Analog 4-20 mA, voltage or Modbus

### Expert 3400



Application: Drinking, waste and process water

Housing: PPS

Diaphragm: Ceramic

Features: Outer diameter Ø 50 mm

Output: Analog 4-20 mA

## Expert™ hydrostatic level transmitters

Measuring ranges from	0 to 0,3 m to 0-300 m
Measurement principle	Piezo resistive or capacitive ceramic measuring cell
Temperature range	-10 ... + 70 °C
Temperature Drift	zero down to 0,02 % / °C
Temperature Operation	span down to ≤ 0,01 % / °C
Measuring range accuracy	≤ 0,2 % FS
Max. Operating	≤ 0,1% FS / year
Output Signals	Analogue 4-20 mA voltage or digital Modbus RTU
Dimensions	Diameter from Ø16 mm to Ø60 mm
Materials, house	AISI 316, PP or PPS
Materials membrane	Acid proof steel or ceramic 99.9% pure AL <sub>2</sub> O <sub>3</sub>
Measuring cell seals	Viton or silicone
Supply voltage	12 - 30 V DC
Output	4 - 20 mA, 0,1 - 1V or Modbus
Cable	2 x 0,5 mm <sup>2</sup> , shielded (+ 5 x 0,15 mm <sup>2</sup> programming contacts) Insulation PVC/PUR
Length	12 m, or by request
Enclosure	IP68, waterproof
Approvals	<b>CE:</b> EN50081-1, EN50082-1 <b>ATEX:</b> II 2G Ex ia IIC T6 (-20°C≤Ta≤40°C) II 2G Ex ia IIC T5 (-20°C≤Ta≤50°C) II 2G Ex ia IIC T4 (-20°C≤Ta≤80°C) <b>UL:</b> Class I, Division 1, Group A-D T4/T5/T6 Demko 06 ATEX 137949X



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