



MJK Automation manufactures measurement and control instruments for waterworks, sewage plants and industries.

Our products include:

- Level meters
- Pump controllers
- Electromagnetic flow meters
- Open channel flowmeters and flumes
- pH, redox and temperature transmitter
- Turbidity and suspended solids meters
- Samplers
- Equipment for recording and indication
- Data recording and transmission
- PC software for monitoring and control

MJK is known for high-quality, innovative products that give years of service with low long term cost of ownership. MJK instruments are used for control and monitoring of pumping stations, sewage plants and waterworks. MJK's equipment is also used in many industries.

MJK exports to more than 40 countries worldwide, through a network of subsidiary companies and authorized dealers. MJK has companies in Denmark, Norway, Sweden, Holland, USA, and Australia.

MJK's mission is to manufacture water treatment process measurement and control instruments, that optimize efficiency, save water and make a better and safer environment.



MJK Automation A/S
Byageren 7
DK-2850 Nærum
Denmark

Tel.: +45 45 56 06 56
Fax: +45 45 56 06 46

mjk@mjk.com
www.mjk.com

Expert™ hydrostatic level transmitter model 1400 and 3400

Measurement ranges:	0 – 0,3 / 1 / 3 / 5 / 10 / 30 / 100 / 300 m
Measurement principle:	Capacitive measurement cell
Temperature range:	-10 ... + 70 °C
Temperature drift, zero:	0,02 % / °C
Temperature drift, span:	≤ 0,01 % / °C
Meas. range accuracy:	≤ 0,2 % FS
Max. operation:	≤ 0,1% FS / year

Material

Model 1400:	Housing: AISI 316, membrane: 97% pure Al ₂ O ₃
Model 3400:	Housing: PPS, membrane: 99,9% pure AL ₂ O ₃
Measurement cell packing:	Viton or silicone
Supply voltage:	12 - 30 V DC
Output:	4 - 20 mA
Cable:	2 x 0,5 mm ² , shielded (+ 5 x 0,15mm ² programming wires)
Materials:	PVC/PUR
Length:	12 m (can be supplied with extra cable on request)
Enclosure:	IP68, watertight

Approvals

CE:	EN50081-1, EN50082-1
ATEX:	Ex: Ex ia IIC T6 (pending)
UL:	Class 1 Division 1 Group A-D (pending)

Expert™



We have more than 20 years of experience in manufacturing hydrostatic pressure transmitters. In 2005 pressure transmitter number 100.000 left our factory.

MJK Expert™ level transmitters can be programmed for level measurement in a variety of applications in water, wastewater and industrial processes.



Expert™ Level Transmitter 1400

The newly developed Expert™ Level Transmitter 1400 is accurate and reliable and approved for use in hazardous areas with the following approvals: Atex Ex ia IIC T6 and UL Class 1 Division 1 Group A-D.

Expert™ Level Transmitter 1400 can be programmed to any measurement range from 0 - 30cm up to 0 - 300m. E.g. a 0 - 30 m level transmitter could easily be scaled down to 0 - 10 m.

Expert™ Level Transmitter 1400 is made from stainless steel (316L) with a protected ceramic diaphragm, and in order to ease installation in tight conduits, the cable is extremely flexible.

All transmitters come as standard with cable bracket.

Expert™ Level Transmitter generates a 4 - 20 mA output signal proportional to the pressure on the diaphragm.

Expert™ Level Transmitters can be utilized for level measurements as stand-alone or with a signal processing unit such as pump controller, open channel flowmeter, PLC or similar.

Expert™ Level Transmitters are utilized in sewage plants, pump stations, water supply plants and in industrial processes where a robust, accurate and long-term reliable level measurement is important.

Expert™ Level Transmitters are made of materials that guarantees high chemical resistance such as e.g. Expert™ Level Transmitter 3400 can be utilized in tanks with chemicals like acids and Ferro chloride etc.



Expert™ Level Transmitter 3400

The newly developed Expert™ Level Transmitter 3400 is accurate and reliable and approved for use in hazardous areas with the following approvals: Atex Ex ia IIC T6 and UL Class 1 Division 1 Group A-D.

Expert™ Level Transmitter 3400 can be programmed to any measurement range from 0 - 30cm up to 0 - 300m. E.g. a 0 - 30 m level transmitter could easily be scaled down to 0 - 10 m.

Expert™ Level Transmitter 3400 is made from PPS with a 99,9% pure ceramic diaphragm with a large contact surface suitable for sewage applications, and tolerates a wide range of aggressive liquids.

Applications:

Waste water

For all level measurements in waste-water, from sewer pump stations to wastewater treatment plants.

Water supply

All level measurements in potable water plants through to ground water measurements and storage vessels for chemicals.

The industry

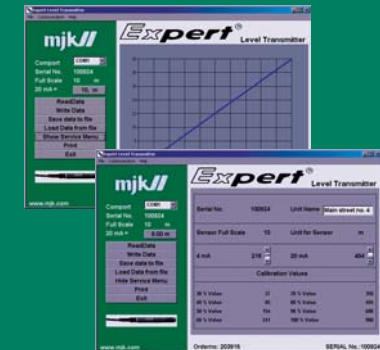
Industrial applications like measurements in all types of process tanks where level measurements are made from the surface, including measurements in hazardous area applications.



PC programming

Expert™ Level Transmitter 1400 and 3400 can be programmed in both 0-point and span in the ranges 0 – 30cm and 0 – 300m.

With an MJK developed PC program and adaptor, the transmitter can easily be connected to the PC and be programmed, even when in operation.



An optional cable connection box with local indicating display is available.