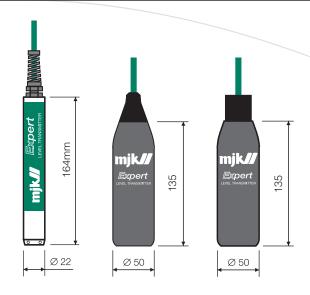


Manufactured by MJK Automation ApS, Byageren 7, DK-2850 Nærum, Denmark

a xylem brand MANUAL EN 2.75 Expert 1400/3400 1506

Expert[™] 1400 / Expert[™] 3400 Submersible Hydrostatic Level Transmitters



CE Certificate of conformity

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This product complies with the requirements concerning electromagnetic compatibility (EMC) stipulated in Council directive no. 89/336/EEC, 2004/108/EC, 1999/EC, on the approximation of the laws of the Member States relating to electromagnetic compatibility.

We declare that the product complies to the values stipulated in EN 61000-6-4 2007-02-19, EN 61000-6-2 2005-09-08, EN 600079-0 : 2012, EN 60079-11 : 2012.

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Introduction

Thank you for choosing Expert[™] Level Transmitter.

We have done everything possible to make a level transmitter that can fulfil all your demands.

Expert[™] Level Transmitter is suitable for all kinds of level measurements. It can control and supervise levels in wells and tanks - including aggressive and polluted media.

The Expert[™] Level Transmitter is both easy to install and put into service, but read this manual first - then you will get the most benefits from the Expert[™] Level Transmitter right from the beginning.

You can always contact your representative or the MJK Service Hotline for advice and guidance. Also, take a look at http://www.mik.com

Expert[™] Level Transmitter is registered trademark of MJK.

On the model 1400 transmitters, the pressure ranges together with the corresponding part numbers are laser engraved on the transmitter housing.

For all versions the pressure range is indicated on the transmitter.



On the model 3400 transmitters, the pressure ranges together with the corresponding part numbers are laser engraved on the transmitter housing.

For all versions the pressure range is indicated on the transmitter.



3400 transmitter

Safety instructions

1: Read this manual carefully.

2: Be aware of the environment on the installation site. Wear necessary protective equipment and follow all current safety regulations.

3: Do not operate the equipment outside the specified electrical, thermal and mechanical parameters (see datasheet). Install the device only in media for which the wetted materials have sufficient durability. (See datasheet for housing material) Max, supply voltage is 30 VDC.

4: Do not connect or use any programming interface/ equipment while the transmitter is located in an explosion hazardous environment.

Hazardous areas

1: All current local and national standards, regulations regarding installation and use of Ex or hazardous zone approved equipment, certifications and safety instructions for Ex equipment that have been used together with the installation of the Expert 1400 or 3400 level transmitter must be strictly observed.

2: The use of an approved zener barrier or isolator is mandatory when installing Expert™ Level Transmitter 1400 and 3400 in explosion hazardous areas.

Repair

1: Repair of EX approved equipment must only be made by MJK or by a service representative approved by MJK.

Mechanical mounting

Cable

Model 1400

Cable

bracket

Protective pip

bracket

1: Mount a suitable hook over the desired measuring location. Note the weight of the cable.

2: Lower the pressure transmitter into the liauid.

Model 3400

Model 1400

1: Mount a suitable hook over the desired measuring location. Note the weight of the cable.

2: Lower the pressure transmitter into the liquid.

3: If the transmitter is to be used in a wetwell or other locations with turbulence or other disturbance, it is advisable to install a pipe (min. nominal diameter = 75 mm) to protect the transmitter from bumping into the wall or other components.

Take care not to hit the bottom Protective pipe. hard since it may damage the Min nominal transmitter! diameter = 75mn

It is very important that minimum 25 mm of the pressure transmitter is not being covered by the pipe!

Model 3400 with thread top

1: Mount the pressure transmitter onto a 1" pipe and mount the pipe firmly at the desired measuring location.

2: Lower the pressure transmitter into the liquid.

Take care not to hit the bottom hard as it may damage the transmitter!

1) If the cable is extended, the complete capacity and self-induction cannot exceed the maximum specifications. Fot UL or EX approved mounting, see control drawing on the next page.

2) Do not connect a programming unit to the transmitter or make any attemt to program the transmitter while the transmitter is located in an explosion hazardous zone!

Electrical mounting

Cable length vs. supply voltage

The cable can be lengthened with any type of cable¹. Although the measuring signal is not sensitive to electrical noise, we recommend the use of a screened cable.

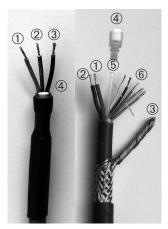
Ensure that no moisture can enter the pressure compensation tube inside the cable.

Designation of wires, cutting & stripping the cable

The factory delivered cable has the wires marked with the numbers 1 - 2 - 3. If the cable needs to be cutted and stripped, the shield should be connected as the no. 3 wire.

Do NOT connect any of the colored programming wires as it may damage the transmitter. The programming wires should be cut off in different lengths to prevent them from short circuit².

Take care not to block or squeeze the air pressure compensation tube ⁵.



Factory delivery Cutted and stripped

No.	Wire Color	Description
1	Red or White	+ 10-30 V DC
2	Brown	4-20 mA (-supply)
3	Black	P/E Connection (Ground)
4		Moisture Filter
5	Transperant	Air Pressure Compensation Tube
6		Programming wires

Model 3400

Model 3400

Min. 25-50 m