

Tank level Indicator with Graphical and Numeric display



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Description

This level indicator has a 4-20mA transducer in the tank and a versatile process meter providing the display, the signal between the two is via a screened cable. The display is pre-calibrated to suit the tank supplied. The unit will provide dry run protection for the pump and also has the capacity to provide a VFC or a 4-20mA output signal to BMS or similar.

Installation

Pressure Transducer

The pressure transducer must be installed within the main rainwater storage tank. It must be suspended into the tank such that the bottom of the device is approximately 20mm above the base of the tank. The cable must be securely fastened with cable ties, but without damaging the cable. If the pre-fitted cable is not sufficiently long, then it may be extended using screened cable.

Process Meter

The process meter is an APM unit by Trumeter, this has been fitted in an enclosure with; a fuse, a power supply, a DPDT relay, two terminal blocks and three cable glands. This can be fixed to a wall in an appropriate position and the cable connections made as shown below.

Once installed and power is supplied to the unit, the LCD will illuminate showing a tank level reading and alarm conditions. If necessary the unit can be re-calibrated during commissioning using a laptop computer with software from truAPM.com.

Relay VFC terminals

These are rated to provide direct Dry run protection for a 1kW pump or can be used for alarm functions.

Additional displays

With the addition of water meters on relevant pipework, additional displays can show Volume of rainwater and or mains water used by the system. These would be bespoke units to suit customer requirements.