



The Smart Valve Positioning Transmitter



- Turn your manual valve into a smart valve; designed for 0-90 degrees, multi turn and linear applications
- Data to be transferred via gateway to control room or cloud solution (or by means of an Android Smart Phone)
- Avoid operational challenges without adding expensive costs on wiring and installation

Description of Applications

Sentec's Wireless Valve Position Transmitter Fusion 200 fits to any type of manual operated valves, and will log current and past valve position with date and time of position change. This saves time and cost, and avoids safety issues due to maloperations of manually operated valves. Data will be transferred to a Smartphone or via a gateway to the control – room or a cloud-solution.

Fusion 200 has no moving parts and no mechanical units that opens for failures and maintenance. Onboard sophisticated microprocessors and MEMS (Micro Electro Mechanical Systems) sensors detects valve position and movement. Embedded software algorithms keep track of valve position in percent open with high resolution for all sorts of valves, part turn valves (ball or butterfly) or multiturn valves (globe or gate, with or without gear). The algorithm allows calibration of individual valves electronically at installation. The sensor can also conduct linear measurements.

Fusion 200 is battery powered and communicates wireless with BLE (Bluetooth® Low Energy/BLE 5.0) to operator's terminals running companion apps for a range of operational applications, including transfer of logged data to ERP systems by means of a web services.

Design and Technology Features

- Measures multi-turn, 0-90 degrees and linear movements
- Connects to smart phones and tablets with BLE (Bluetooth® Low Energy) Certified Bluetooth® Wireless technology.
- Connects to Gateway with a range > 1 km by means of Bluetooth 5.0 technology.
- Housing: High impact polycarbonate and stainless steel construction
- Ultra-low power consumption, no battery change between valve service periods
- Secure field programmable
- Cloud Architecture
- Android App for calibration purposes and data retrieval (when not connected to a gateway)

Reference Environmental and Electrical Specification

Internal 3,6 V battery no field replacement

The complete assembly will withstand saline and humid atmosphere

Operating temperatur: Minus 40 deg C to pluss 80 deg C

Environmental protection according to IEC standard 60529 to IP 67

Explosion protection Ex II 1 G ia IIB T4 Ga

Tested according to IEC 60079-0:2012 and IEC 60079-11

EMC Directive: EN 61326-1:2013, EN 61326-2-3: 201