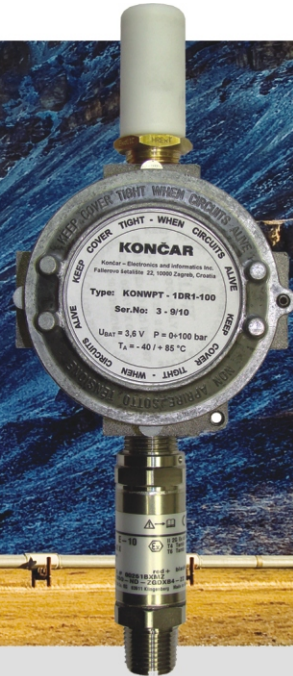




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KONWPT

The wireless pressure transmitter KONWPT is a part of the wireless pipeline pressure monitoring system. The KONWPT is a battery powered autonomous unit for pipeline pressure measurement. Measuring data is sent over a 2,4 GHz wireless radio link to the Access Point. APs collect measured data from KONWPTs, and send it through to the Modbus Gateway to the pipeline monitoring center.

Product identification

KONWPT - 0 D - 100 - r1

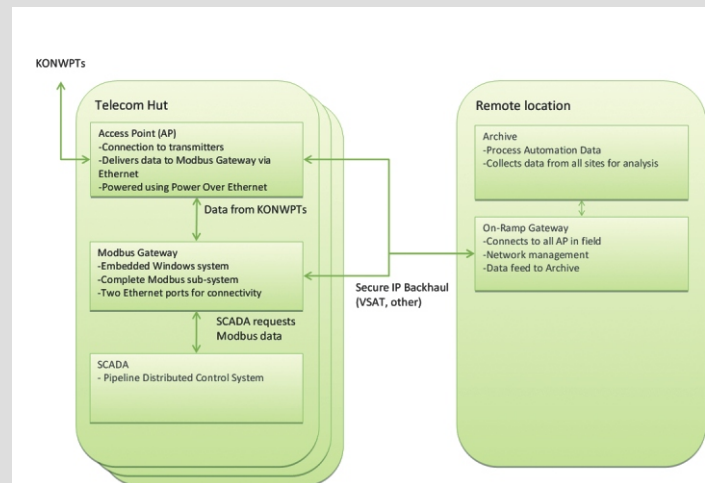


Pressure measurement range (bar)
Ex protection
ATEX zone

Description

The KONWPT periodically measures pipeline pressure, and sends this information over the wireless link to the pipeline monitoring center. The pressure is measured by the pressure sensor, which converts measured data in the current between 4 and 20 mA. Acquisition electronics compute measurement data, and send it to the AP using the wireless module (On-ramp eNode).

The wireless pressure transmitters (KONWPT) are battery powered. They have two modes of operation: sleep and measure. When they are in the sleep mode, the power consumption is very low. This setup provides equipment autonomy of several years, depending on measuring time intervals.



Technical data

Pressure transmitter specification:

- Pressure measurement mode *Absolute*
- Pressure range *0 to 100 bar (0 to 1500 psi)**
- Zero offset *< ±1% FS*
- Span Tolerance *< ±1% FS*
- Operating temperature *-40°C to +85°C*
- ATEX certificate *Zone-0 (KONWPT-1), Zone-1 (KONWPT-2)*
- Ex certificate *Ex-d*
- Ingress protection *IP65 (according to IEC 60 529)*
- Pressure connection *1 inch NPT male*

Measurement data:

- Pressure measurement interval *5, 10, 30 or 60 minutes*
- Device diagnostic *YES*
- Device configuration *YES*

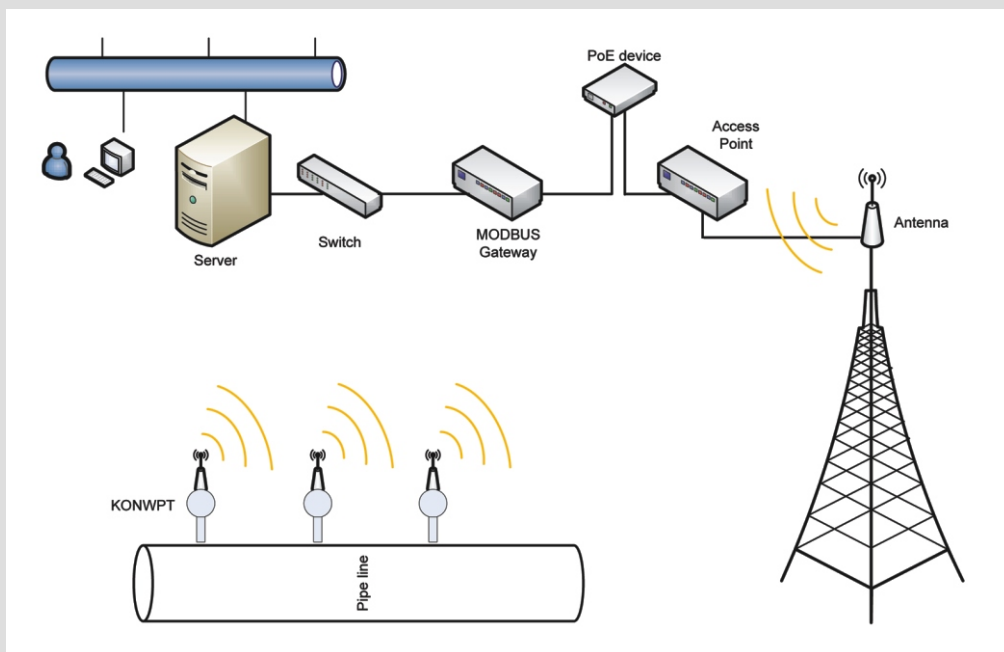
Radio specifications:

- Operating frequency *2,4 GHz*
- Bandwidth *1 MHz*
- Receiver sensitivity *-142 dBm*
- Transmit power *10 mW - 1 W (depend on legislation)*
- Average transmission range *5 km*
- Communication direction *duplex*
- Power supply *2 to 6 V*

Power supply:

- Battery type *Primary, Li-SOCl₂*
- Battery capacity *14 Ah (max)*
- Battery life *> 1 year*

** to be defined when ordering*



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