



Wavetrend's Water Pressure Smart Device is designed to monitor water systems for faults and leakage through the fluctuation of pressure. Pressure measurements are taken every 15 minutes and alerts are generated immediately on detection. All pressure measurements are sent via Sigfox messages at a report rate that automatically adapts based on configurable pressure thresholds.



WATER PRESSURE SMART DEVICE SD02

Key Features

Pressure sensor accuracy
< +/- 0.025 bar

Real time pressure alerts

Adaptive report timing based on alert conditions

Configurable pressure thresholds

Real time clock with over-the-air synchronisation

Sigfox Class 0 radio performance

Long battery life

IP68 sealing

Benefits

Highly accurate measurements can be relied on

Allows proactive and timely response to leakage events

Ensures real time data when needed and economical use of the network at other times

Flexibility to configure individual devices based on local conditions

Ensures accurate message timing

Provides best chance of successful message reception

Long service life with minimal maintenance visits

Guarantees devices are fit-for-purpose in challenging installation environments



WATER PRESSURE SMART DEVICE SD02

Specifications

Environmental

Operating temperature	-20 to +60 °C
Relative humidity	95% non-condensing
Ingress protection	IP68

Physical

Size	280mm x 32mm diameter
Weight	150g
Colour	Grey
Material	WRAS approved ABS body

Power

Type	'A' size, primary lithium-thionyl chloride (Li-SOC12) battery
Specification	3.6V, 3600mAh
Compliance	Compliant with IEC 60086-4 safety & IEC 60079-11 intrinsic safety (class T3)
Transport	Non-restricted for transport, not assigned to Class 9 according to the UN recommendations on the transport of dangerous goods

Radio

Frequency	868MHz
Uplink class	Sigfox Class 0
Sigfox radio zone	RC1
Antenna	Integrated, 2.15dBi
EIRP	16dBm maximum, software configurable

Pressure Sensor

Pressure range	0 to 10 bar
Permissible overpressure	20 bar
Accuracy (non linearity, hysteresis, repeatability)	< +/- 0.025 bar
Body	316L stainless steel
Diaphragm seal	WRAS approved EPDM seal
Cable	2m length standard
Sensor sealing	IP68 cable gland with IP68 cable

Certification (pending)

CE/radio equipment directive (RED) interface	RF exposure - EN 62479 Safety - EN/IEC 62368 EMC - ETSI EN 301 489-1/3 RF - ETSI EN 300 220-1/2
Ingress protection	Testing to IP68 standard
Network	Sigfox certification

To order or for further information



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