WSD12PS-4AIM4

Wireless Smart Datalogger
Four analog inputs recorder with transducer power supply generation

Technical Information

Power supply	Double 5,8A/h - 3,6 V type "C" lithium internal battery
Battery life (*)	Up to 3years *(samples every 60 minutes, with 100mA of 12V power load and radio signal quality at least sufficient)*
Power supply generated for transducers	+12Vdc or +24Vdc (*up to 100mA*) (*Selectable onboard using jumpers*)
Sampling interval *(*)*	Selectable from one minute to 24 hours *(60 minutes default)*
Datalogger capacity	64,000 samples (*for each channel*)
Working temperature	• Operative: -30°C ÷ +60°C • Warehousing: -40°C ÷ +70°C
Radio frequency	ISM 868MHz
Radio coverage	Up to 6Km in line of sight (*can be extended using* **WR12** *battery powered routers*)
Sealing	IP65
Dimensions	90x160x50mm
Weight	450g
Case material	ABS
Mounting	Fix on 4 points
Connections	Wireless,USB
Cable external diameter	3mm minimum - 6.5mm maximum
Copper wire section	0.05 ÷ 2.5mm² / ÷ 14 AWG

Measures acquired (4 channels)

Possible input signals (*up to 4*)	• 0÷5V, 0÷10V • 0÷25Vdc, 0÷25mA
Resolution	12 bits converter
Measurement expression	Expressed as full scale % setting
Transducers connection	Through 5mm pitch screw terminal blocks
Settings (*measure/system of measure*)	Using jumpers

Wireless Smart Datalogger.

The **WSD12PS-4AIM4** is a four analog inputs datalogger designed for voltage measurement (*0÷5Vdc, 0÷10Vdc, 0÷25Vdc*) or current (*0÷25mA*) selectable using jumpers, capable of powering external transducers with a 12Vdc or 24Vdc power supply (*up to 100mA*). Measurements acquired are expressed in percentage of full scale.

The radio module High Reliability (*unique 868MHz radio technology. implementing frequency hopping on 11 channels*) based on **WINECAP™ LuPo** protocol (*Long Range*) provides an excellent radio range, low battery consumption and the certainty of data recovery in any situation (*black out/signal obstacles*).

With a backup memory onboard may store the last 64,000 samples per channel even if the wireless link is down.

Samples can be downloaded using a USB connection.

Using the configuration software the sampling interval may be set and two thresholds per channel can be activated.

May be interfaced with:

- all the **basestations** of **MWDG** product line
- all the **basestations** of **MWLI** product line

If necessary, radio coverage may be extended up to 16 times using **WR12 routers** (*battery powered repeaters with battery life up to 7 years*) between the datalogger and the **basestation**.

* battery life may be influenced by fieldwork conditions, sampling interval and system configuration. - refer to User Manual.

The features shown may be subject to change without notice.