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Transducers power supply

Wireless datalogger designed to measure four analog inputs voltage measurement or current, capable of powering external transducers with a 12Vdc or 24Vdc power supply.

Suitable to:

- External transducers power supply
- $0 \div 5V$, $0 \div 10V$, $0 \div 25Vdc$ o $0 \div 25mA$ inputs

Main features

- Easy to install
- IP65 sealing
- Up to 3 years of battery life



General technical specifications

Power supply	Double 5,8Ah - 3,6 V type "C" lithium internal battery
Battery life (*)	Up to 3 years <i>(with 100mA charge distributed on 4 analog channels, 1 second warm-up time, 12V or 24V power supply, samples every 60 minutes and radio signal quality at least sufficient)</i>
Power supply generated for transducers	+12Vdc or +24Vdc (up to 100mA) <i>(Selectable onboard using jumpers)</i>
Warm-up time	From 1 (default) to 32 seconds <i>(Selectable using WineCapManager)</i>
Sampling interval (*)	Selectable from one minute to 24 hours <i>(60 minutes default)</i>
Datalogger capacity	64,000 samples (for each channel)
Working temperature	<ul style="list-style-type: none"> • Operative: -30°C ÷ +60°C • Warehousing: -40°C ÷ +70°C
Radio frequency	ISM 868MHz
Radio coverage LBO	Up to 6Km in line of sight <i>(can be extended using WR12 battery powered repeaters)</i>
Sealing	IP65
Dimensions	90x160x50mm
Weight	450g
Case material	ABS
Mounting	Fix on 4 points
Connections	Wireless, USB
Cable external diameter	4.7mm maximum
Copper wire section	0.05 ÷ 2.5mm ² / ÷ 14 AWG

Acquired quantities

Possible Input Signals (up to 4)	0÷5Vdc, 0÷10Vdc, 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



The **WSD12PS-4AI** is a datalogger designed to measure four analog voltage or current selectable, capable of powering external transducers with a 12Vdc or 24Vdc power supply.

The main feature of the instrument is the capability to autonomously externally power transducers by supplying a continuous voltage of 12Vdc or 24Vdc, up to 100mA distributed on the 4 analog channels.

Measurements acquired are expressed in percentage of full scale.

The datalogger acquires four configurable measure channels: 0÷5Vdc, 0÷10Vdc, 0÷25Vdc or 0÷25mA.

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 gateways of [MWDG](#) product line
- all the gateways of [MWLI](#) product line

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

** 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