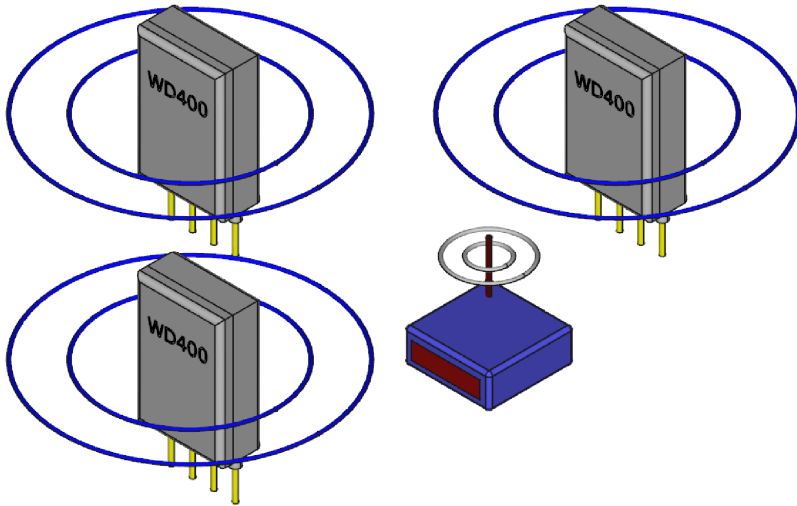


# WD400 Sistema Wireless



## Applications

Structural and geotechnical monitoring.

## Compatible Instrumentation

- Electrical piezometers
- In place inclinometers, tilt meter, tilt beams,
- MEMS sensors, servo –accelerometers
- Crack meters, wire extensometers, potentiometers
- 4-20 mA Thermometers, level systems, load cells
- Rod extensometers.

## Features

WD400 system collects the needs and the experience of years of monitoring systems for structural and geotechnical applications.

The local data logger unifies the need of:

- High resolution (16 bits);
- Flexible inputs (+/-2V, +/-10V, 4-20 mA, ratio metric);
- Low power in stand by mode ( $< 10\mu\text{A}$ );
- Standard batteries utilization (4 x Size D alkaline);
- Long range.

The gateway is provided with:

- SD card;
- Ethernet, USB connectivity;
- 3G HSDPA connectivity;
- Data transmission on FTP with ASCII files.



WD400 Wireless System  
O.T.R. s.r.l. Via Btg. Susa 36 29122 Piacenza +39 0523 594290  
www.otr-geo.it info@otr-geo.it Vat Number 00894610153

Number	003
	Page 1 of 2
Rev. 02	13/08/2018

# WD400 Wireless System

## Technical Features

### WD 400 Local Unit

- 128 Kbyte EEPROM memory
- stand by current <10 micro ampere
- Inputs +/-2.048 / +/- 10V, 0-20 mA, 4-20 mA, mV/V
- Sensor supply 15Vdc (15Vdc, 2,048 V ratio metric)
- 4 x 16bit inputs
- USB local port
- Radio 868 MHz a 10 mW
- Range >> 200 m in urban environment, >> 1 Km in open field
- Data Encryption,
- Internal RTC synchronized
- Box IP65, UL94-HB 165x115 mm
- Internal module certified R&TTE
- Supply with 4 standard batteries size D alkaline
- Autonomy > 1 year with 4-20 mA sensors @ 24 measures per day, > 2 years with natural output sensors @ 24 measures per day
- Biaxial inclinometer +/-5° embedded on demand
- Internal NTC thermometers
- Configuration of :
  - o scan interval;
  - o preheating;
  - o start time;
  - o physical units of outputs;
  - o sensor identification;
  - o direct measure.....

### Gateway

- Ethernet, HDSP/3G/GPRS connectivity
- Linux operative system
- SD card
- Data transmission on normal FTP
- Compatible with MyOtr and Otr-Service
- Certifications EU: EN 55022 Class B, EN 55024
- Included power supply
- Aluminium box
- Antenna 868 MHz and 3G/HDSPA included




Product technical specifications are subject to change without notice



### Related instrumentation:

- MyOtr
- Piezometers
- Inclinometers
- Thermometers
- Crack-meters
- In place inclinometers

	WD400 Wireless System	Number 003	
	O.T.R. s.r.l. Via Btg. Susa 36 29122 Piacenza +39 0523 594290	Page 2 of 2	
	www.otr-geo.it info@otr-geo.it Vat Number 00894610153	Rev. 02	13/08/2018