Pietro Fiorentini

NEXT

Multichannel Remote Monitoring
Unit for Cathodic Protection

NEXT

Standard acquisition unit

Next is the new standard **multichannel** acquisition unit for AC/DC measures.

Next is designed for Cathodic Protection data acquisition and transmission, combining customization and standardization in one **unique solution**.
Next covers all end users' real operating needs thanks to its several dynamic customization possibilities.

The capability of quick adaptation to the field technical needs, covering every possible requirement, is the key factor of Next.

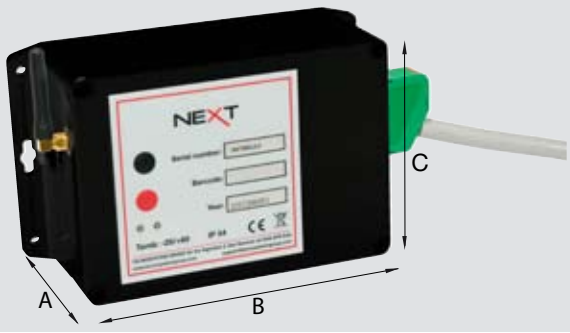
TECHNICAL SPECIFICATIONS	NEXT

4 measure channels (electrical insulation among channels) for the following measures:

Channel 1: potential	DC: full scale 10 V AC: full scale 70 V
Channel 2: current intensity (*)	DC: full scale 150 mV AC: full scale 150 mV
Channel 3: current intensity (*)	DC: full scale 150 mV AC: full scale 150 mV
Channel 4: voltage	DC: full scale 70 V AC: full scale 70 V

(*) intensity measured by a shunt

Dimensions (mm)	
A	80
B	170
C	120



NEXT - More than 5.000 units installed worldwide.

Data transmission frequency and archiving capability

- Sampling frequency: 1 ms
- Measure frequency: 1 s
- Storage frequency: 1 s
- Transmission of daily summary values (Minimum, Maximum, Average, Standard Deviation, Number of alarms, out of threshold time, both for AC and for DC)
- Transmission programmable by user
- Possibility of performing detailed registrations (LOG), which can be EXTRAORDINARY (upon request), or PERIODICAL (upon request) to selectable among the following ones:
  - **CONTINUOUS**: registration of 24 hours, with the transmission of the 86400 minutes of the day.
  - **STATISTICAL**: registration of 24 hours, with the transmission of the 1440 minutes of the day (each of which includes the value of minimum, maximum, average, standard deviation, number of alarms, out the threshold time).
  - **ON-OFF**: registration on coupon
- QUADRIBAND data transmission: GPRS - GSM
- Potential and current intensity measure (intensity measure done by means of a shunt)
- ON-OFF programmable table
- Possibility of remote modification via internet
- Impedance: 10 MegaOhm
- Electrical separation among channels: 500 V
- Automatic calibration check
- Automatic communication to Data Center in case of wrong calibration
- Accuracy 1%
- Power: battery package, integrated with data logger
- Autonomy: 5 years with daily transmission of the summary
- Dimension: data logger, shunt, modem, battery package and transmission antenna are all integrated in one unique IP54 container, in order to preserve all the components, included the battery, from external agents.
- Data storing: 70 days
- Synchronization of data transmission at 24.00
- Working temperature: -20° C to +60° C

Option

- 220 V or solar panel
- Additional momory storage on SD Card

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TECNOSYSTEM

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