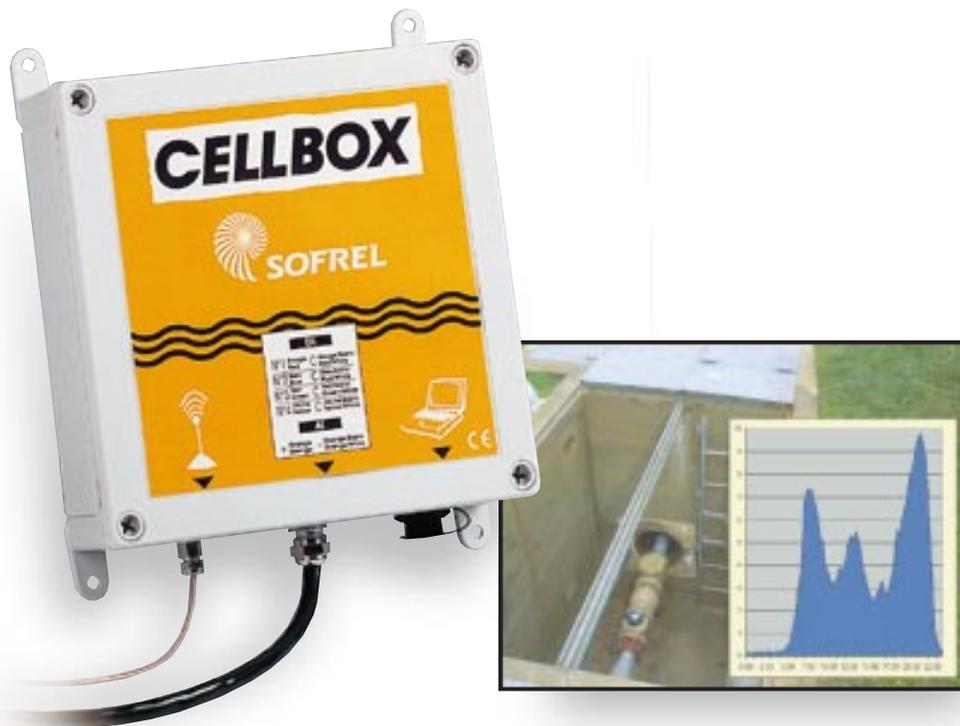# CELLBOX

BATTERY POWERED RTU VIA GSM

Specifically designed for monitoring industrial sites where main power and wire communications (dial-up or private lines) are not available, CELLBOX is a stand-alone SCADA RTU communicating via GSM.

CELLBOX receives and logs alarms, counts inputs and measures data, and also performs calculations and produces reports automatically.

Packaged in an IP67 environmental enclosure, CELLBOX contains an internal battery with several years of operational power.

CELLBOX is a low-cost, but powerful and ready-to-use solution suitable for a wide range of applications: sectorization of water systems, leak detection, remote monitoring and control of isolated equipment, etc.

APPLICATIONS

NETWORK SECTORIZATION
CELLBOX monitors the distribution network on a per-section basis by:
- measuring, calculating, and logging pipe flows; and
- sending all this field data back to the SCADA Master Station.

LEAK DETECTION
By continuously logging flows, CELLBOX can detect leaks or pipe breaks. For a detailed analysis, CELLBOX has the ability to make special measurements over a given period of the day (for example, monitoring the night flow between 1 a.m. and 4 a.m.).

REMOTE CONTROL AND MANAGEMENT OF ISOLATED SITES
CELLBOX efficiently controls and monitors remote locations with no power supply, even in harsh conditions (rainfall, flow measurement, etc.). In addition to simple and powerful SCADA features, CELLBOX, when installed in an isolated reservoir, can also control the pump station by communicating with the associated S50 RTU.

CELLBOX

GSM

Host Master Station

CELLBOX FEATURES

COUNTING
- Management of count indexes with periodic archiving
- Hourly, daily, and time frame-based reports on counts (e.g. night volumes)
- Flow calculations

MEASURING
- Data acquisition by 4-20 mA input
- Measurement archiving based on a user selectable period
- Daily reports (reading of minimum, maximum, and average values)

HANDLING ALARM LIMITS
- On count indexes
- On measurements (e.g. low pressure)
- On calculated flow (e.g. high flow, risk of leaks)

TECHNICAL DATA

INPUTS
- Four Digital Inputs
  - Dry, self-powered contacts
  - Two inputs used as pulse counts (frequency: up to 25 Hz).
  - Appearance/disappearance timeout programmable for each input
- One standard 4-20 mA Analog Input (optional)

LOCAL COMMUNICATIONS
- One RS232 link for connecting a PC (used to set and view data)

CONFIGURATION
- Locally or remotely, via our Softools software running on a PC

PACKAGING
- Plastic IP67 enclosure
- Size (mm): 180 W x 180 H x 66 D
- Includes connecting cables (length: 2 m)

SUPPLY
- Lithium battery
- Battery life: 2 years (depending on usage)

CE
EN 55022:
Information technology equipment
Noise emission
Class B

EN 55024:
Information technology equipment
Noise immunity

SOFREL

Head office
2, rue du Plessis - 35770 Vern-sur-Seiche - Rennes - France
Tel. +33 (0)2 99 04 89 00 - Fax +33 (0)2 99 04 89 90
Web: www.sofrel.com - E-mail: telecontrol@sofrel.com