

C.LOG 500

DATASHEET



GENERAL DESCRIPTION

ISA solutions are designed to attain cost reductions through best practices in smart logistics and an **optimized telemetry** assisted operation.

c.Log 500 is a solution for remote physical **sensors monitoring**, also integrated with fully configurable alarm & data logging functions, accessible through remote communication.

This solution's compatible with several sensor types, directly connected or wirelessly linked **Remote Transmitter Units** (RTU). During its normal operation, the c.Log 500 periodically

performs **sensors measurements** or readings from meters, evaluates alarm thresholds & triggers appropriate actions, stores sensor readings on a log which will be transmitted to a **remote server**.

Various alarms are available for configuration in order to setup the right triggers to your operation, enabling an effective management of the monitored assets. Being powered by a lithium battery, it can be **installed anywhere** where mobile coverage is available.

APPLICATIONS

- Remote tank level monitoring;
- Cathodic protection monitoring;
- Automatic meter reading;
- Gas cylinders stock management;
- LPG tank level and meter monitoring.

FEATURES

- Installation in less than 5 minutes;
- Analog and digital inputs;
- Configurable alarms;
- Maintenance-free;
- Software integration with ERP.



SPECIFICATIONS

FUNCTIONALITIES

- Analog inputs: 1 for level sensor (0-4V) and another for cathodic protection monitoring;
- Digital inputs: up to 2 inputs (with internal pull-up for connection to meters with relay/reed output or open collector);
- RTU monitoring: up to nine sensors; RF communication status monitoring;
- Sensor acquisition / Reading frequency: configurable from 1 min. up to 1 time per day;
- Logging frequency: configurable from one minute up to one time per day;
- Communication frequency: configurable from 10 minutes up to one time a week;
- Memory capacity: 192 acquisitions;
- Sensor availability: Supports Rochester, Huba, Keller and Cotrako Sensors;
- Alarms: up to 24 alarms can be configured;
- Installation and configuration: through our mobile App (can work in offline) or SMS.

RF FEATURES

- Operating frequency: 868MHz or 915MHz;
- GSM Antenna: internal;
- Frequency band: UMTS (800 / 850 / 1700 / 1900); GSM Quad Band (900/1800MHz & 850/1900MHz); CDMA (800/1900 MHz 1xRTT support).

POWER SUPPLY

- Battery type: primary, lithium, replaceable;
- Battery life: up to five years (depending upon the communication and measurement parameters set).

OPERATING CONDITIONS

- Temperature: -40°C to +60°C (-40°F to +140°F);
- Humidity: 10% to 90%.

ENCLOSURE FEATURES

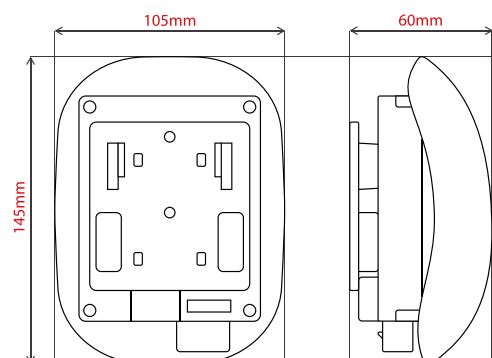
- Dimensions: 145mm x 105mm x 60mm;
- Protection Index: IP68.

MODELS

Model	Voltage analog inputs	Digital inputs	RF Radio	Cellular Network	Max. number of sensors
EX.CLOG500.K1	1	NA	No	2G 3G CDMA	1
EX.CLOG500.KW	1	NA	Yes	2G 3G CDMA	9
EX.CLOG500.K1.PA.C2	1	2	No	2G 3G CDMA	2
EX.CLOG500.KW.PA.C2	1	2	Yes	2G 3G CDMA	9
EX.CLOG500.D2	NA	2	No	2G 3G CDMA	2
EX.CLOG500.D2M1	NA	2+1	No	2G 3G CDMA	2

CERTIFICATION

CE 0518 Ex II 1 G Ex ia IIB T4 Ga
Class I, Zone 0, AEx/Ex ia IIB T4
Class I, Division 1, Groups C & D, T4 'Exia'
-40° C < Ta < +60° C



APPLICATIONS

LPG TANK LEVEL MONITORING

- Up to **9 tanks** (receiving data of up to 9 RTU);
- RTU communicates via radio to the c.Log;
- Compatible with **all Rochester sensors** (and others under consultation);
- Sensor detachable from the c.Log;
- Data transmission of tank activity: max & min level replenishment & unusual consumption.

FUEL & LUBRICANT MONITORING

- Up to **9 tanks**, receiving data of up to 9 RTU;
- RTU communicates via radio to the c.Log;
- Level monitoring with a hydrostatic pressure sensor;
- To measure the liquid height, the sensor is installed inside the tank;
- Can be used to measure other liquids.

CATHODIC PROTECTION IN BURIED TANKS

- Up to **8 tanks + 1 cathodic protection**;
- Reference **electrode underground** installation that measures the potential between the tank and the electrode.

GAS CYLINDER MONITORING

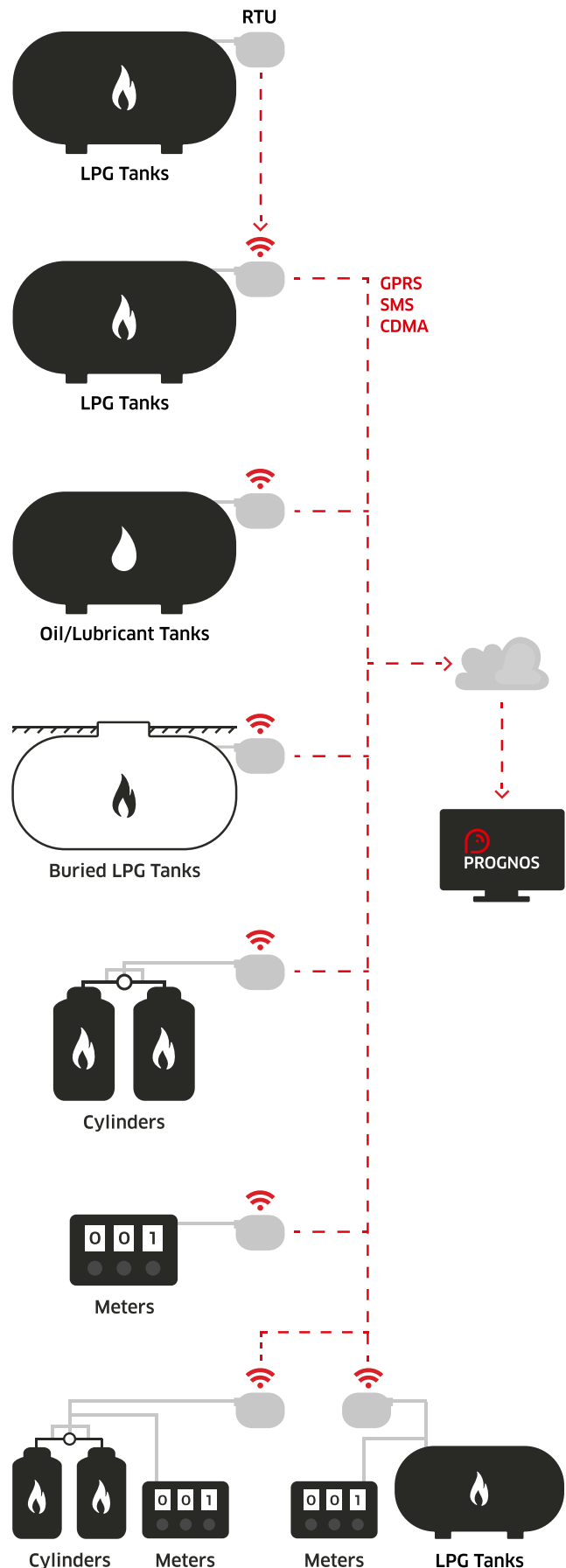
- Monitoring of the **cylinders at use and in stock**;
- Compliant with most common telemetry ready automated changeovers.

AUTOMATIC METER READING

- Monitoring up to **2 meters**;
- Supports Water, Electricity, Natural Gas and LPG meters.

MIXED SOLUTIONS MONITORING

- Monitoring of the **cylinders and 1 meter**;
- Monitoring 1 **tank and 1 meter**.





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