

Multi-Utility Gateway

T-LOG/M - Code 8D5741

UTILITIES

- GSM/GPRS/SMS multifunctions device
- Ideal for **Telemetry and Smart Metering** applications
- 868MHz **Wireless M-BUS** Receiver/Transmitter
- Class 10 **GPRS** modem
- **Quad-Band GSM Engine** (850/900/1800/1900MHz)
- **Data, SMS or e-mail data communication**
- TCP/IP Stack On Board
- **Low Power** Hardware Design
- **IP68** plastic case for outdoor use
- Long-Life battery
- **Proven and reliable hardware**
- Easy installation

DESCRIPTION

Digicom T-LOG/M is a latest generation device designed to satisfy all the **Telemetry and Remote Control** needs in **multi-utility and industrial environment**.

T-LOG/M is the **ideal solution for Remote Reading and Metering applications** as it is the result of **multiple technologies** integrated together like the **GSM and GPRS** technologies with a **868MHz LPD** (Low Power Device) transceiver and the **IP68 watertight case** for outdoor use.

T-LOG/M is **powered by a long life battery** (7 years) as it has been designed to be placed far from the standard power sources.

The **detected values are stored and sent** at established days/hours to the Data Collection Center **via SMS, CSD or E-mail**.

Alarm messages are sent in case of irregular conditions like battery low, wire cut, tampering

or satellite peripherals lost.

T-LOG/M has got **2 wire inputs** that can be automatically configured as **digital** (meters)



T-Log P

or **analog** (level gauge or cathodic protection).

The **transceiver can communicate** with Digicom T-Log/P or with standard peripherals **through the wireless M-Bus protocol (EN 13757-3/4)**.

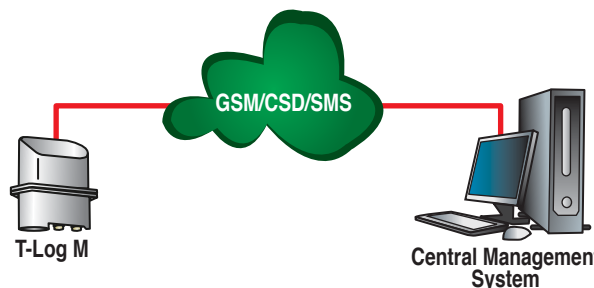
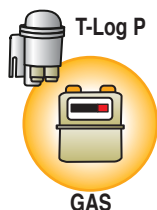
Through the T-Log/P transmitters it is possible to **manage up to 16 remote meters** (2 meters x 8 satellites).

T-LOG/M can also **store the consumption data and send them** with an e-mail thanks to the TCP/IP Stack support and to the DNS and SMTP protocols.

T-LOG/M has been designed and manufactured considering all the installation and activation conditions. Digicom's experience in Telemetry allowed the realization of a product that can be easily and quickly installed optimizing the costs in this phase. In remote metering systems the installation costs are very important in order to get a fast return on investments, T-LOG/M and T-LOG/P are supplied with waterproof connectors for a quick installation.

TECHNICAL FEATURES

- Industrial Gateway for GPRS/GSM/SMS applications
- Quad-Band Engine 850/900/1800/1900 MHz
- GPRS Class 10
- GSM CSD speed up to 9600bps
- Built-in TCP/IP Stack
- Low Power Consumption Microprocessor
- Extended temperature range:
-20°C to +60°C (operation)
-20°C to +75°C (limit with possible operation restore)
- IP68 plastic case for outdoor use
- Integrated GSM antenna
- Bidirectional 868MHz Transmitter/Receiver
- Wireless M-Bus EN 13757-3/4 support
- Data Transmission via SMS, CSD or E-mail



The screenshot displays the Digicom software interface, divided into two main sections: a configuration window on the left and a data log window on the right.

Configuration Window (Left):

- Master identification:** Name: 00000000, Number: +393386591229, Remark: MY NEW MASTER.
- Configurator numbers:** +393355832398.
- Receiver numbers:** +393355832398.
- Master parameters:** Slave Period: 5 min, GSM ON Time: 5 min, Retry Limit: 3 sms, Retry Period: 1 min, SMS Archive: 99 sms.
- GSM module wake-up:** 01:12:10 Day 01, 15:10:30 Hour 12, Min 10.
- Inputs and Outputs:** Table with columns NAME, I/OTYPE, MODE, VALUE. Includes IN1-4 (INPUT, COUNTER) and OUT1-2 (OUTPUT, OCCUPEN).
- Slave List:** Table with columns SERIAL, NAME. Lists SLAVE1 to SLAVE4.

Data Log Window (Right):

MASTER 1/0

NAME	I/OTYPE	MODE	VALUE	NUMBER	TIME	MODE	VALUE
IN1	INPUT	COUNTER	0	1	2009-02-11 15:41	PULSEPPOSITIVE	0
IN2	INPUT	COUNTER	0	2	2009-02-11 15:41	PULSEPPOSITIVE	1
IN3	INPUT	COUNTER	0	3	2009-02-11 15:41	PULSEPPOSITIVE	0
IN4	INPUT	COUNTER	0	4	2009-02-11 15:41	PULSEPPOSITIVE	1
IN5	INPUT	EDDERISING	0	5	2009-02-11 15:47	PULSEPPOSITIVE	0
OUT1	OUTPUT	OCCUPEN	0	6	2009-02-11 15:50	PULSEPPOSITIVE	0
OUT2	OUTPUT	OCCUPEN	0	7	2009-02-11 15:50	PULSEPPOSITIVE	1

SMS Received: 10 - SMS Size: 10

NUM	TIME	DIRECTION	READ	TYPE	CONTENT
1	2009-02-11 15:42:02	OUTGOING	✓	SET CONFIGURATION 1 PARAMETERS	**PARAMETER 1: 393386591229**
2	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 1: 393386591229**
3	2009-02-11 15:48:29	OUTGOING	✓	SET CONFIGURATION 2 PARAMETERS	**PARAMETER 2: 393355832398**
4	2009-02-11 15:48:29	OUTGOING	✓	SET CONFIGURATION 1 PARAMETERS	**PARAMETER 1: 393386591229**
5	2009-02-11 15:48:29	OUTGOING	✓	SET CONFIGURATION 2 PARAMETERS	**PARAMETER 2: 393355832398**
6	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 1: 393386591229**
7	2009-02-11 15:48:29	OUTGOING	✓	SET CONFIGURATION 1 PARAMETERS	**PARAMETER 1: 393386591229**
8	2009-02-11 15:48:29	OUTGOING	✓	SET CONFIGURATION 2 PARAMETERS	**PARAMETER 2: 393355832398**
9	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 1: 393386591229**
10	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 2: 393355832398**
11	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 1: 393386591229**
12	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 2: 393355832398**
13	2009-02-11 15:48:29	OUTGOING	✓	SET CONFIGURATION 3 PARAMETERS	**PARAMETER 3: 393355832398**
14	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 3: 393355832398**
15	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 1: 393386591229**
16	2009-02-11 15:48:29	OUTGOING	✓	SET CONFIGURATION 2 PARAMETERS	**PARAMETER 2: 393355832398**
17	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 2: 393355832398**
18	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 1: 393386591229**
19	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 2: 393355832398**
20	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 3: 393355832398**
21	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 1: 393386591229**
22	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 2: 393355832398**
23	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 3: 393355832398**
24	2009-02-11 15:48:29	OUTGOING	✓	SET CONFIGURATION 3 PARAMETERS	**PARAMETER 3: 393355832398**
25	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 3: 393355832398**
26	2009-02-11 15:48:29	OUTGOING	✓	SET CONFIGURATION 3 PARAMETERS	**PARAMETER 3: 393355832398**
27	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 3: 393355832398**
28	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 1: 393386591229**
29	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 2: 393355832398**
30	2009-02-11 15:48:29	INCOMING	✓	ACKNOWLEDGED	**PARAMETER 3: 393355832398**



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