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TPSIM- MT375

Fit the meter & read it over the internet!

(TPsim) is designed to be read from any PC or Lap-top with an internet connection. As long as you have access to your login and password it can be read instantly from anywhere in the world.

Installation couldn't be simpler: install the same as any three phase meter; when that's done ring the number (supplied with the meter) and register it.

Login: spwales
password: spwales1



- Fully integrated GSM modem
- AMR on demand and alarm call-backs
- CoP5 compatible
- 'Fit and go' – simple and fast installation procedure
- Multi-utility input for water, heat or gas meters reading
- Active/reactive, multi-rate metering
- Indication of operational statuses
- Very high EMC immunity

FUNCTIONAL AND TECHNICAL DATA

Measured and recorded quantities

Active and reactive energy, optionally apparent energy in both energy flow directions – import (A+, R+, S+) and export (A-, R-, S-), accuracy class 1 or 2

Maximum demand with programmable integration period (typically 5, 10, 15, 30 or 60 minutes)

Power quality parameters

- Instantaneous voltage and current
- Under/over voltages
- Phase voltage faults
- Voltage unbalance
- Daily peak and minimum voltage for each phase
- Number of short power-downs (less than 3 minutes), total time without power supply

Multi-rate registration

- Programmable tariff structure, up to 8 rates
- Up to 4 seasons

Load profile

- One or two channels, up to 16 objects can be saved on one channel
- Programmable LP period (typically 15, 30 or 60 minutes, 1 day)
- Capacity (one profile, one measurement value with a time stamp and status, period 1 hour): 114 days

Log book: up to 128 events with a time stamp

Communication

GSM/GPRS

- Fully integrated GSM/GPRS modem
- Dual-band EGSM 900/1800 MHz is supported
- High performance internal antenna is integrated into the meter

External antenna option

Available for installation in case of insufficient GSM signal. An external antenna can be connected via a special inductive coupler – no need to open a meter or a terminal cover.

SIM card exchange

A SIM card can be hot-swapped and automatically registered in a GSM network. The SIM connector is designed for high reliability contact and is positioned under the meter terminal cover.

RS485

Optionally, instead of a GSM modem, the meter can be equipped with RS485 interface. Up to 31 meters can be connected to one communication loop at a distance up to 1200 m.

Communication protocols

Two protocols are supported:

- IEC 62056-46 (DLMS) on a GSM modem and optionally on RS485
- IEC 62056-46 (DLMS) and IEC 62056-21 (former 61107) on optical port

Metrological LED

Two LEDs are built in, indicating active and reactive energy flow. Blinking frequency is related to energy consumption.

Real time clock

- Accuracy according to IEC 62052-21
- Day-light saving feature
- Remote synchronization available
- Super Cap for back-up power supply (up to 7 days)

LCD display

- Data can be displayed in automatic or manual scroll mode
- Programmable data set and sequence
- Data identification according to IEC 62056-61 (OBIS)

Phase voltage presence, energy flow direction, self-diagnosis parameters as well as some communication parameters are also shown on the LCD display:

- 3-state GSM signal level indicator (high, low, too low)
- Registration to the GSM network
- Communication in progress

Tamper-proof features

- The meter detects the main cover and the terminal cover opening, records it in a logbook and optionally triggers an alarm call
- Neutral line break-off detection

Output relays: Two relays are built in:

- 6 A electromechanical (for load control)
- 100 mA Opto-mos

Multiutility

- Two S0 impulse inputs or
- M-Bus interface on which up to 4 gas, heat or water meters can be connected

Accuracy class (IEC 6205321)	2 or 1
Max. current (direct connected).....	85 A or 120 A
Max. current (CT connected)	5 (6) A
Nominal voltage Un	3 x 230/400 V
Voltage range	0.8 Un ... 1.15 Un
Nominal frequency fn	50 Hz or 60 Hz
Temperature range.....	-25°C ... +60°C
Extended temperature range	-40°C ... +70°C
Storage temperature	-45°C ... +80°C
Self-consump. current circuit	<0.5 VA
Self-consump. voltage circuit	<2 W / 10 VA
Isolation voltage	4 kV, 50 Hz, 1 min
Voltage shock	12 kV, 1.2/50 µs
Short circuit current	50 I _{max}
EMC burst test.....	(IEC 801-4) 6 kV
Optical port	IEC 62056-21
Dimensions.....	250 x 178 x 86 mm
Mass	1.3 kg

Call-back

The meter can perform a call and send a message to the centre:

- After installation
- If a pre-defined alarm condition exists (e.g. after Power Down/Up event)
- If a signal appears on the alarm input

Housing

- self-extinguishable polycarbonate
- IP 54 protection against water and dust

OVERALL DIMENSIONS (mm)

