

MT375 – is targeted on deregulated energy markets and enables provision of an AMR

services. MT375 is a poly -phase meter intended for use in Commercial/Industrial and CoP5 applications. MT375 incorporates a fully

GSM/SMS modem can be exchanged with integrated RS485 communication interface for

tion of well-proven metering technology and state-of-the-art GSM/SMS communication modem, all integrated and sealed under a single enclosure. The integrated solution attains

Iskraemeco meters. The meter is approved according to IEC 62052-11 and IEC 62053-21, ISO 9001, and designed according to even

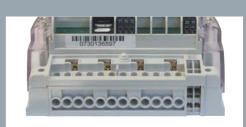
manufacturing and 55 million meters on the



ISKRAEMECO — Energy Measurement and Management

MT375

Poly-phase AMR meter with GSM/SMS modem







Active/Reactive power



Single or double direction



CT operated meter



Multi-rate registration



Real-Time Clock synchronized by GSM



Load profile -1 & 2 channel



Log-book





Communicaton protocol



AMR communication: GSM/SMS, GPRS



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

FUNCTIONAL AND TECHNICAL DATA

Automatic Meter Reading – GSM/SMS

- GSM modem is fully integrated into the meter
- Multiple frequency bands are supported including 1800 MHz, 900 MHz, 800 MHz and 1900 MHz
- High performance antenna is integrated into the meter

External antenna option

Available for installations with insufficient GSM signal.

SIM card exchange

SIM card can be hot-swapped and automatically registered with the service provider. The SIM connector is designed for high reliability contacting and is positioned under the meter terminal cover.

Automatic Meter Reading - RS485

Optionally up to 31 meters with an RS485 interface can be connected to one communication (1 km) loop.

Performance indicators

Metrological LED (imp/kWh)

Illuminated: meter is powered, no load current Pulsating: load current is higher than starting

Not illuminated: meter is not powered

LCD indicators

Modem communications statuses:

- 3-segment GSM signal level indicator
- Modem registered with the GSM network
- GSM communication in progress

Other indicators include phase voltage presence, tamper parameters and self-diagnoses parame-

Self-triggered alarm call-back

The meter can send alarm messages if an alarm condition exists (e.g. after power failure).

Communications

- Integrated GSM/SMS modem supporting the IEC 62056-46 (DLMS) protocol
- RS485 interface (option): IEC 62056-46 (DLMS) protocol
- Optical port (IEC 62056-21) supporting the IEC 62056-21 (former IEC 61107) or IEC 62056-46 (DLMS) protocols

Local data display (LCD)

- Automatic or manual scroll mode
- Programmable data set and sequence
- Data identification according to OBIS (IEC 62056-61)

Tamper-proof features

opening, records it in a logbook and (optionally) triggers an alarm call.

Installation procedure

Fast and easy 4-step process, consisting of meter fitting, automatic connection check and communication verification.

Active/Reactive energy: import (A+), (R+), export (A-), (R-) and absolute IAI

Maximum demand (Ti = programmable)

age and current, under/over voltages, powerdowns and cosq

Multi-rate registration

- Programmable tariff structure (1.... 8 rates)

- Super Cap for power down back-up (up to 10 days)
- objects
- Programmable LP period: 15, 30, 60 minutes or 1 day (other periods on demand)

CASING DIMENSIONS

The meter detects main cover and terminal cover

Measured and recorded quantities

Power quality parameters: instantaneous volt-

- Up to 4 seasons

Real-Time Clock

- Accuracy according to IEC 62052-21
- Day-light saving scheme
- Periodically synchronised to the GSM network

Load Profile

- One or two channels with up to 16 captured
- Capacity of up to 200 days at Ti = 30 min

Log-book

Up to 128 meter events with time stamps.

Meter programming

All programming modes including meter SW downloading can be done locally (by an HHU) or remotely (by GSM) under the pre-defined security level access.

Accuracy class (IEC 6205321)2 or 1 Nominal current In (CT connected)............5 (6) A

Nominal voltage Un.....3x230/400V

Nominal fraquency fn50 Hz, 60Hz

Temperature range-25 °C ... +60 °C

Extended temperature range......-40 °C ... +70 °C

Storage temperature-45 °C ... +85 °C

Self-consump. current circuit.....<0.5 VA

Self-consump. voltage circuit<2 W / 10 VA

Isolation voltage4 kV, 50 Hz, 1 min

Voltage shock12 kV, 1.2/50 μs

Short circuit current50 Imax

EMC burst test.....(IEC 801-4) 6 kV

Optical portIEC 62056-21

Dimensions......250 x 178 x 86 mm

Mass1.3 kg

Multiutility AMR

M-bus input for reading gas, heat and water meters.

Enclosure

- Self-extinguishing polycarbonate
- IP 54 protection against water and dust

177.5



Owing to periodical improvements of our products the supplied products can differ in some details from the data stated in the prospectus material

Your Distributor - Meter Manager Ltd www.metermanager.co.uk Tel: 01706 657100

Published by Iskraemeco. Data subject to alteration without notice.