



## M360

## General Overview

The M360 is a three phase active energy electricity meter with advanced Automatic Meter Reading (AMR) and management features.

M360 measures electric energy consumption and transmits data over the power lines, using two way Power Line Communication (PLC), to a central unit – a concentrator – from which data is transmitted to the control center by cellular communication – GSM/GPRS.

M360 is capable of receiving data from the concentrator such as: Time Of Use (TOU) tables, power limit, real time clock.

M360 is capable of transmitting data to the concentrator such as: energy reading, status, TOU Reading.

M360 operates simultaneously as a meter and as a repeater, amplifying and transmitting signals from neighboring units towards the concentrator over power network. It accomplishes very high communication availability at any time from distant locations on the power network, eliminating the need for additional amplifiers.

M360 meter is a compact meter, designed to be mounted on DIN standard rail (4 DIN width case) in distribution boards or in standard cabinets.

Optional: M360 can be supplied with an internal radio receiver using unlicensed RF Communication, that reads nearby Water / Gas meters.

## Features:

- ✓ 1 IEC62053-21 20(63) A, Class 2, direct measurement static watt-hour meter.
- ✓ Real two-way "A" band Power Line Communication.
- ✓ Automatic calibration (NO physical adjustment).
- ✓ Non volatile backup memory.
- ✓ Calculates locally Time of Use (TOU) consumption at multiple tariffs.
- ✓ Repeats and amplifies signals transmitted by other distant units towards the concentrator over the power network – No distance limitation.
- ✓ 2 line 8 Character LCD display.
- ✓ Internal real time clock updated periodically by the concentrator..
- ✓ Measures and reports line voltage.
- ✓ Directly energized by power lines.
- ✓ Small size – four width DIN - rail mounted.
- ✓ Reads Water/Gas meters via unlicensed RF communication and sends to the concentrator.  
(Optional)
- ✓ 16mm x 2 wire Terminals
- ✓ Simple and fast installation.



## Technical Specification

General	
Supply Voltage range	80% - 115% Un
Nominal Frequency ( $f_n$ )	50Hz
Nominal Voltage (Un)	3x230 (400)V
Meter Consumption at Un	1.2W-14Var
System connections	3 phase 4 wire
Measurement	
Class Index according to IEC62053-21	Class 2
Basic Current ( $I_b$ )	20A
Maximum continuous current ( $I_{max}$ )	63A
Environmental	
Temperature range:	
operation	-10°C to 55°C
storage	-25°C to 70°C
Insulation Strength	
Protective Class acc. to IEC62052-11	Class I ↓
Display	
Type	LCD
Format	8 Characters x 2 Lines
Character size	4.3mm x 2.95 mm
LED Indicator	
Flash rate	100 imp/kWh
Communication Interfaces	
Optical IrDA Baud rate	9600bps
PLC Frequency range	"A"-band
PLC Method	Spread FSK
RF (receive only) Frequency (Optional)	Unlicensed 433 MHz



## Technical Specification

Weight/External Dimensions	
Weight	115 g
Width	72 mm
Height	93 mm
Depth	63mm

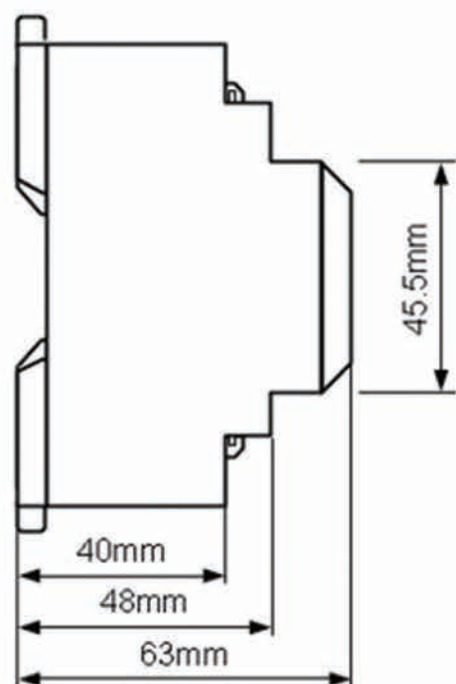
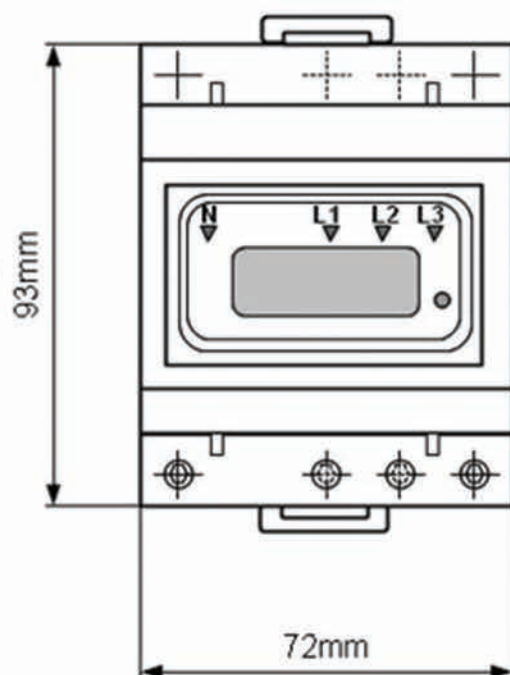


Fig. 2.Meter Dimensions





## Connection Diagram

Connections	
Connection system type	Clamping yoke connection
Maximum conductor cross-section	16 mm <sup>2</sup>
Minimum conductor cross-section	6mm <sup>2</sup>
Clamping screw	M5x17
Head of clamping screw	Socket hex cap 4 mm
Tightening torque, min	3.5 Nm
Tightening torque, max	4.5 Nm

