



EM512 Type 700-ALOR

Power Limiter Energy Meter with Double Sensor

New generation from EM512 type 700 JV-1 for Energy meter with power limit called ALOR
EM512 type 700-ALOR is single phase electricity meter that is uniquely designed to meet special purpose to restrict the usage of daily electrical consumption.

EM512 type 700-ALOR is special meter for use in certain area or neighborhood where the supply of electricity power is very limited. In this purpose, every house hold has to limited or controlled their consumption according to maximum available energy in daily basis.

KEY BENEFITS

- » Maximum current of 60A with Class1 accuracy
- » Adjustable Energy limiter value in Wh
- » Adjustable hour setting for daily energy Reset
- » Adjustable maximum power limit to open relay
- » Anti Tamper meter Optical port for programing

PROTECTION

EM512 type 700-ALOR is manufactured using advanced technology and high quality component materials in order to ensure long-term functionality and accuracy. The resistance and protection features protect the meter from dust and liquid damage in accordance with IP54 testing standards.

EM512 type 700-ALOR is manufactured with anti-tamper features which comply to SPLN D3.009-1:2010.

In the event of tampering, the meter will continue counting the energy consumption based on class limit. In this case, the register will be automatically protected and will record a missing energy measurement.

This missing energy will sum at the total energy register.

In visual mode, the yellow LED and the LCD will be activated every time the meter detects tampering or energy theft.

EM512 type 700-ALOR is designed with a magnetic sensor used to activate the LED tamper and LCD display each time the meter indicates an external magnetic force. In this case, the meter will keep measuring the energy usage based on the class 1 standard meter.

BENEFITS AND FEATURES

The meters have a tamper detection switch. In the event of open terminal cover, the meter automatically disconnect the load.

The meters also have the data bus output via optical probe, which the meters always push the data out via optical probe. For ease of use and user friendliness, all EM512 type 700-ALOR meters include:

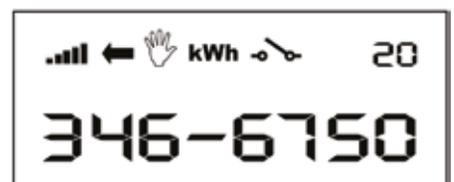
- LED for tamper indicator (yellow color)
- LED for credit indicator, (Red color for Low credit and green color for sufficient credit). The low credit warning limit can be

programed

- LED for consumption (red Color)
- LCD for the display
- Buzzer for indicator low credit threshold. the threshold is adjustable in Wh and minutes.

The keypad when pressed has both tactile and audible feedback. The keypad used for input the short code. By the short code, the data inside the meter can be shown at LCD display
The display resolution in 10Wh

LCD DISPLAY

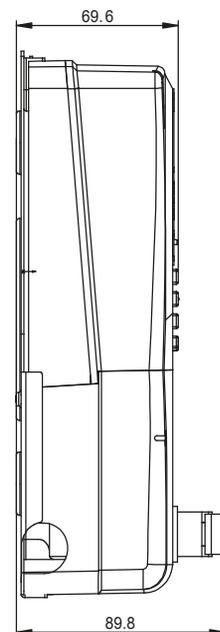
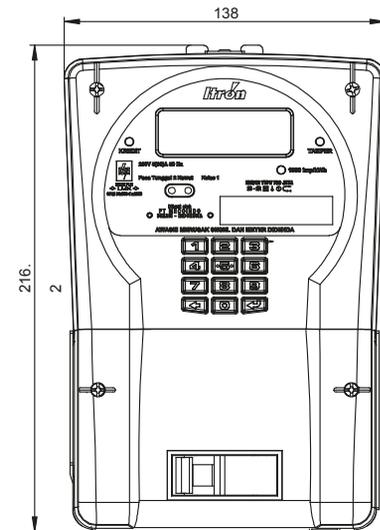


- »  Power bar indicator
- »  Reverse current indicator
- »  Tamper indicator
- »  Contractor open indicator

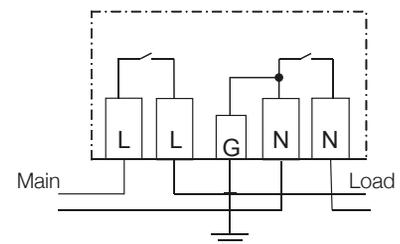
TECHNICAL SPECIFICATIONS

Meter Type	Power Limiter Single Phase meter
Standard	IEC 62052-11:2003 ; IEC 62053-21:2003 ; SPLN D3.009-1:2010
Network	Single Phase 2 wires
Measuring Scope	Active Energy
Class Index	Class 1
Reference voltage	220V, 230V, 240V
Operating Voltage Range	- 30% Un to +15% Un
Power Consumption	<2W and <10VA
Basic Current	5A
Maximum current	60A
Starting Current	0.2% Ib
Operating Temperature range	-25°C to + 55°C
Limit temperature Range to transport and storage	-25°C to + 85°C
Degree of Protection	IP 54
Immunity to impulse voltage	6kV
Relative Humidity	Up to 95%
Meter Weight	1.3 Kg
Meter constant	1000 pulse/kWh
User Interface	12 digits keypad with audio feedback 7 segment LCD with special symbols LED Indicator Optical Probe

DIMENSION



Wiring Diagram



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