



# EM214

Residential Three Phase Electricity Meter With Internal Tariff Control | Type 900

The Itron EM 214 type 900 meter with internal tariff control is a new generation compact meter, offering full compatibility with existing metering panels and equipped with enhanced features for the modern utility environment including comfort of installation, meter reading and event detection.

## COMPATIBILITY

The EM214 is fully compatible with the requirements and connectivity of traditional metering panels with additional new features and outstanding metrological performances:

- » DIN terminal configuration
- » Energy recording up to 6 tariffs
- » OBIS code on display
- » Large backlit display
- » Display available without mains power
- » Optical port
- » Comfort of installation: instantaneous current, voltage and power
- » Test mode

## MODULARITY

The EM214 can be tailored to the exact needs of the installation.

A variety of functions and interfaces are available and can be easily integrated to meet market requirements:

- » External tariff control
- » Pulse outputs
- » One way serial data output (DBO)
- » Remote reading and parameter setting vis RS485 and external modem
- » Instantaneous power on LCD
- » Optional reactive energy

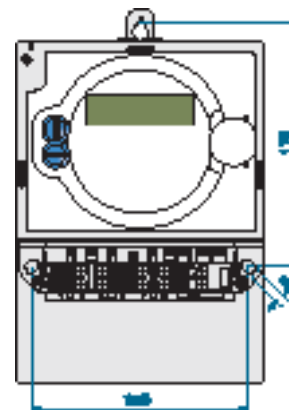
## KEY BENEFITS

- » Easy to install and test
- » Easy to read
- » High level of protection against harsh environments
- » Wide range of operating voltage, suitable to serve long LV lines
- » Low starting current to detect energy flow of low consumption devices
- » Strong anti-fraud features
- » Meter cover sealed for life
- » Optional terminal cover and main cover open detection
- » Log book of past events
- » Full immunity against strong permanent magnets

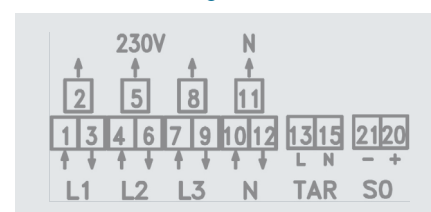
## Technical Specifications

Meter type	Static, polyphase watt-hour meter
Network	3-phase 4 wire , 3-phase 3 wire
Measuring scope	Active energy (both import and export) Reactive energy as an option
Tariffs	Up to 6 rates
Reference voltage	3 X 230/400 V, 50 Hz or 60 Hz
Current rating	5 (100) A
Starting current	Below 10mA
Temperature range	-40°C / +70°C (LCD -25°C / + 70°C)
Storage temperature	-40°C / + 85°C
IP protection	IP54
Environment class	M2 / E2
Fast transient burst	4kV
Impulse voltage resistance	12kV
Surge immunity	6kV
Accuracy Class	A or B for active energy Class 1 or 2 for active energy Class 2 or 3 for reactive energy
Accuracy of voltage and current measurement	Better than 1%

## Dimensions



## Terminal block wiring



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