

OR Series Electronic Combimeter



Active, Reactive (Inductive & Capacitive)
Import / Export, Demandmeter, Outdoor Type (IP 54)

OR Series Electronic Combimeter for Active or Reactive Energy with Direct or Transformer Connection

OR series consist of active, reactive (inductive & capacitive) combimeters designed for the industry to measure the energy and the maximum demand. A measuring set of one active meter and one or two reactive meters can be replaced by only one combimeter. The version, fitted with as well as exceptional days. The version with additional load profile storage enables several additional possibilities like compilation of network loading statistics, monitoring of inconsistencies, and tariff configuration. The version have an additional plug in capabilities for PLC, AMR, RF and Pre-paid application.

The scroll type menu can be accessed easily through only single button on the front panel or optical port communication. All information about the active/reactive energy consumption in both directions, instantaneous power, battery level indication and tampering are available on the customized LCD. Blinking LED on the front panel indicates the rate of consumption at that instant. In case of energy breakdown, you will be able to read the consumption data either from backlighted LCD or optical port.

OR series electronic watt/hour meters case guarantees high

immunity against mechanical shocks, tampers and extreme climate conditions. Immunity is ensured against surges and disturbances in the electrical network.

The optical interface located on the front side of OR series electronic watt/hour meter enables the authorized people to acquire the energy consumption information of the subscriber data easily.

Functions

1. Set of models for direct connection up to 100 A
2. Set of models for transformer connection above 100 A
3. Measurement for active and reactive (inductive and capacitive) energy in both directions. (4 quadrants measurement)
4. Excellent measuring characteristics complying eighth IEC accuracy classes 05S and 1 for active energy and classes 2 and 3 for reactive energy
5. Automatic readout and communication capabilities,
6. Delta or star type connection capabilities.
7. Optional plug in capabilities for future communication applications.

Common Properties

Applicable Standarts	: IEC 61036 Rev. 2000 TS EN 61036 IEC 60687 (TS EN 60687) IEC 61268
Protection class	: IP54 (According to IEC 60529)
Storage of data	: Non volatile memory (E ² PROM)
Number of tarif	: 1..4 per day including (Saturday and Sunday)
Number of partitions	: 8per days/weekdays 8per days/saturday 8per days/sunday
Display	: 5+3 Custom LCD and symbols, more than 15 years operation
Date and Time	With battery > 4 years, With supercap > 3 hours
Batteries lifetime	: For Date and Time : Operation > 10 years, : Storage > 4 years For optical communication : Operation > 10 years, : Storage > 4 years
Consumption	: Easy access to backlighted LCD and optical port either in operation or not
Temperature range	: -25°C / +55°C operation -40°C / +70°C limit -40°C / +70°C storage
Humidity	: %95 relative humidity
Optical port	: According to IEC 61107, communication port interface
Options	: PLC, AMR, RF (Bluetooth) and Prepaid system application

Technical Data (OR Series)

	OR D1	OR T1	OR T5
Accuracy Class	1 active and 2 reactive	1 active and 2 reactive	0.5 active and 2 reactive
Voltage (V)	3x220/380	3x(57.7/100-220/380)	3x(57.7/100-220/380)
Voltage Tolerance	± %20	± %20	± %20
Frekans	50 Hz, ± %5	50 Hz, ± %5	50 Hz, ± %5
Base current	3x10 A.	3x5 A.	3x5 A.
Maximum current	3x100 A.	3x6,25 A.	3x6,25 A.
Communication	Optik port	Optik port	Optik port
Connection	Direct,	Transformer (delta or star)	Transformer (delta or star)
Dimensions (mm)	81x319x170	81x319x170	81x319x170



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