



CONSUMPTION

FEATURES

- The **DRT-301D** is an instrument conceived to measure electrical parameters such as energy consumption in three-phase star AC systems.
- Measurement readings can be obtained locally (through an LCD display) or remotely, using a pulse output for communication. Includes indicative LEDs in the front panel for counting of energy pulses and phase connection info.
- With a very compact design and suited to Din rail fastening, **DRT-301D** allows direct measuring of loads up to 100Aac.

APPLICATIONS

- Submetering
- Analog instruments substitution in low cost submetering systems

PRODUCT INFO

ELECTRICAL PARAMETERS

- Active Energy Measurement (consumption)

DIRECT MEASUREMENT – 100 A

- Direct measurement of currents up to 100Aac, without requiring external current transformers

INSTALLATION

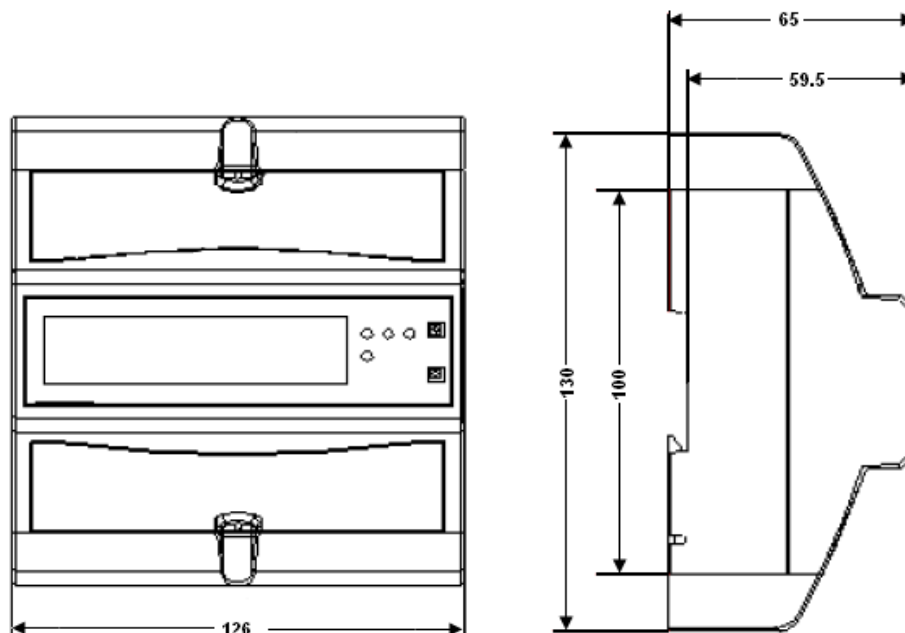
- Panel's Background, 35 mm DIN Rail Fastening
- Technical support via e-mail, telephone, WhatsApp and YouTube videos

INTERFACES & READINGS

- Man Machine Interface (MMI) composed of an LCD display and indicative LEDs, allowing easy local reading
- Includes pulse output for remote reading of active energy, using wired connection to external device inputs (PLCs, mechanical counters, etc.)

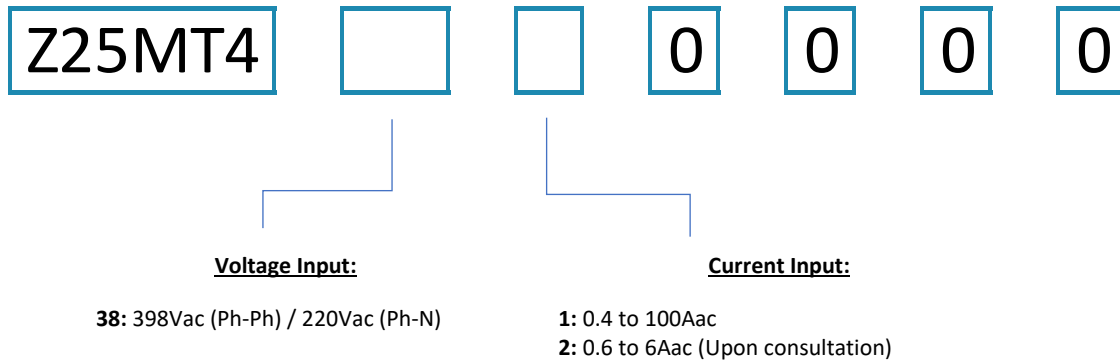
ELECTRICAL GREATNESSES	Energy	Positive Active Energy, in kWh (Consumption)
MEASUREMENTS AND INPUT INFO	Connection Diagrams	Three-phase Star (3 elements, 4 wires) Single-phase (1 element, 2 wires)
	Voltage – Working Range	398Vac Ph-Ph / 220Vac Ph-N – 70 to 130% of the nominal value
	Current – Working Range	0.4 to 100Aac 0.6 to 6Aac (model for indirect current measuring – upon consultation)
	Frequency – Working Range	50/60 Hz
	Electrical Connections	Borneira (IP-20)
	Maximum Cable to be used	16mm ²
	Internal Consumption	< 10VA
ACCURACY at 25°C (77 °F), referred to the full scale	Energy	Three-phase star connection: ± 1% Single-phase connection: ± 2%
PULSE OUTPUT	Electrical Quantity	Positive Active Energy (Consumption)
	Type	Open Collector Voltage (external power source): 5 to 27Vc.c. Pulse width: 80ms ± 20ms Max. Current: 27mA Max. Frequency: 10 Hz 1 pulse/2.5Wh
DISPLAY	Pulse rate (fixed)	
	LCD (green)	1 line x 7 columns Value representation: 5 digits for whole numbers, 2 for decimals
CASE	Material	Thermoplastic
	Mass	0.5Kg
	Protection Degree	IP-51 (case) , IP-20 (electrical connections)
ENVIRONMENTAL CONDITIONS	Temperature	Operation: -10 to 50°C (14 to 122°F) Storage: - 30 to 70° C (-22 to 158°F)
	Relative Air Humidity	Maximum of 75% (without condensation)
	Temperature Coefficient	100ppm/°C
STANDARDS	Electrical Parameters	IEC 62053-21

DIMENSIONS



Dimensions in millimeters

How to Specify:



Standard Model: (Example)

Z25MT4 38 1 0 0 0 0

DRT-301D {Voltage Input: 398Vac Ph-Ph / 220Vac Ph-N} {Current Input: 0,4 to 100Aac}

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For correct utilization of the product, the User Manual must be consulted before its installation or operation.
Some items presented here may be optional, being necessary the correct product specification by their code.

Kron Instrumentos Elétricos Ltda.

Rua Alexandre de Gusmão, 278 - São Paulo, SP | Brasil

Tel: 55 (11) 5525-2000 | www.kron.com.br | suporte@kron.com.br | vendas@kron.com.br