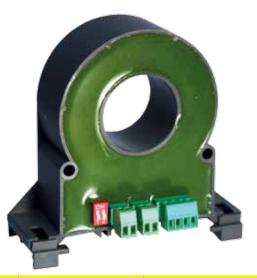
# EMT-1C/50 | 1C/300

DIGITAL MEASURING INSTRUMENTS MODULAR MEASUREMENT TRANSDUCER





TECHNICAL CHARACTERISTICS		EMT-1C/50	EMT-1C/50 LV	EMT-1C/300	EMT-1C/300 LV
<b>AUXILIARY SUP</b>	PLY				
Nominal voltage Us		930 VDC		930 VDC	
Operating voltage range		-		-	
Power consumption		< 1,3W		< 1,3W	
Frequency		50 – 60 Hz		50 – 60 Hz	
<b>VOLTAGE INPUT</b>	<b>S</b>				
Measurement range		Up to 800 VAC or 1000 VDC	Up to 80 VAC or 100 VDC	Up to 800 VAC or 1000 VDC	Up to 80 VAC or 100 VDC
Method of measuring		True RMS value		True RMS value	
CURRENT INPU	ITS				
Measurement range		Fino a 50A AC/DC		Fino a 300A AC o 400A DC	
Method of measuring		True RMS value		True RMS value	
ACCURACY					
Measures	Voltage	0,5%		0,5%	
	Current	0,5%		0,5%	
	Power	0,5%		0,5%	
	Frequency	± 0,1		± 0,1	
	Active energy	Class 1		Class 1	
RS485 SERIAL	INTERFACE				
Baud-rate		Programmable 1200 - 115200 bps		Programmable 1200 - 115200 bps	
Protocol		Modbus RTU		Modbus RTU	
INSULATION					
Insulation voltage		3 kV on bare wire for current measure 4 kV for Voltage measure		3 kV on bare wire for current measure 4 kV for Voltage measure	
AMBIENT CON	DITION				
Operating temperature		-15+65°C		-15+65°C	
Storage temperatu	ure	-40	+85°C	-40	+85°C
Version		DIN rail clips for vertical/horizontal mounting		DIN rail clips for vertical/horizontal mounting	
Filling		Epoxy resin		Epoxy resin	
Degree of protection		IP20		IP20	
Weight		80g		370g	
	S AND COMPLIANCE				- 3
Reference standards		EN61000-6-4/2006 + A1 2011; EN64000-6-2/2005 ; EN61010-1/2010		EN61000-6-4/2006 + A1 2011; EN64000-6-2/2005 ; EN61010-1/2010	

#### MOUNTING

The EMT-1C can be mounted in any position (see photo below), horizontal or vertical mounting, horizontal or vertical through the two hooks for DIN rail included in the box.



## **EMT**-1C/50 | 1C/300

### **DIGITAL MEASURING INSTRUMENTS MODULAR MEASUREMENT TRANSDUCER**

### **EMT-1C/50**

The EMT-1C/50 is a Single-phase Power meter able to measure TRMS Current AC/DC, and Voltage. On the RS485 Modbus are available : Irms, Vrms, Watt, Var, Va, Vpk, Ipk, Frequency,  $\text{Cos}\varphi,$  Energy bidirectional and THD. The device is fully configurable by RS485.

CHARACTERISTICS:

- TRMS Measure, THD available
- 0,5 % Accuracy
- RS485 Modbus integrated
- Bidirectional Energy metering
- Din rail mounting in both side
- · Fully configurable by interface software
- Bootloader for updating firmware

#### EMT-1C/50 LV

The device is fully configurable by RS485.

The EMT-1C/50-LV is the LOW VOLTAGE version of the Single-phase Power meter EMT-1C/50, able to measure the RMS AC or DC Current and Voltage. On the RS485 Modbus are available: Irms, Vrms, Watt, Var, Va, Vpk, Ipk, Frequency, Coso, Energy bidirectional and THD.

#### CHARACTERISTICS:

- LOW VOLTAGE VERSION
- TRMS Measure, THD available
- 0,5% Accuracy;

- RS485 Modbus integrated;
- · Bidirectional Energy metering
- · Din-rail mounting in both side
- Fully configurable by interfacesoftware
- · Available measure register: MSW first, LSW first or hundredts

#### **EMT-1C/300**

The EMT-1C/300 is an Energy / Power Meter capable of measuring single-phase current and voltage AC RMS/ DC. RS485 Modbus with over 200 registers.

Measure available: Irms, Vrms, Watt, Var, Va, Vpk, Ipk, Frequenza, Cos $\phi$ , Import/Export energy, THD, min/MAX of RMS measurement.

Suitable for measurements with varying frequencies (Wind, Hydro, Shipbuilding Industries, Aviation). Telecommunication applications, Refrigeration, Motors. Suitable for direct measurements between inverter and motor.

#### EMT-1C/300 LV

The EMT-1C/300-LV is the LOW VOLTAGE version of the Energy / Power Meter EMT-1C/300, capable of measuring single-phase current and voltage AC/DC TRMS.

RS485 Modbus with over 200 registers.

Measure available: Measure available: Irms, Vrms, Watt, Var, Va, Vpk, Ipk, Frequenza, Cos $\phi$ , Import/Export energy, THD, min/MAX of RMS measurement.

MECHANICAL DIMENSIONS	EMT-1C/50
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#### MECHANICAL DIMENSIONS EMT-1C/300

