Sagemcom

T310

Commercial and Industrial Smart Meter
Semi-Direct & Indirect
P2P or Ethernet



T310 Products presentation

- Transformer connection (CT, CT-VT)
- Cellular communication or Ethernet
- High accuracy class –on Active and Reactive Energy
- Large dynamic power supply
- Enhanced power quality measurement features
- Multi anti-tampering functions

MECHANICAL CHARACTERISTICS	
Sealing method: Top cover and bottom cover are sealed together by ultrasonic welding. The terminal block cover is sealed by one dedicated screw and metallic ferrule.	
Connection diagram	DIN
Cable size	Up to 6mm²

MAIN CONFIGURATIONS		
Interfaces	**T310 RS-232 Cellular**	· Optical port · RS-232 · 5 contact or pulse outputs · 2 contact or pulse inputs · AC/DC auxiliary supply
	T310 P1 Cellular or Ethernet	· Optical port · P1 Port · 2 relays · 1 Digital input · AC/DC auxiliary supply
	T310 RS-485 Cellular	· Optical port · 1 powered RS-485 (RJ45 connector) · 1 RS-485 port(2 RJ12 connectors) · 2 auxiliary relays or digital inputs · 3 pulse outputs · AC/DC auxiliary supply

SPECIFICATIONS		
Basic Features	**Voltage**	Auto-ranging 3x57,7/100V up to 3x240/415V
	Current	1(10)A
	Frequency	50 Hz
	Accuracy	Active energy: MID Class A, B or C IEC Class 2, 1, 0.5S or 0.2S Reactive energy: IEC Class 2, 1, 0.5S
	Quadrants	Q1/Q2/Q3/Q4, Import/Export Energy
	Lifetime	15 years
Environment	**Operating temperature**	- 40°C/+ 70°C
	Humidity	< 95%
	Protection Index	IP 54
	Protection Class	Class II
Customer Interaction	**Display**	· LCD: Dot matrix (64x128) · Digit Size: 5x8 mm · Symbols: up to 10 per line · Language: Configurable
	LEDs	· 1 for Active Energy · 1 for Reactive Energy
	Push Buttons	· Main button for scrolling · Sealable button for maintenance
RTC	**Reading without power**	· Built-in battery (2-or 5-years power back-up) · Extractible battery (2-or 5-years power back-up)

MAIN FUNCTIONALITIES (examples)	
Time of Use	Programmable Load profiles: Capture list/capture COSEM objects/capture period
	Programmable Billing profiles: Capture list/capture COSEM objects/capture period
	Tariff management via built-in programmable output relay
	Calendar/Time of Use management
Measurement	Instantaneous values
	Transient
	Angles
	Disturbance
	Voltage cuts
	Sags and swells
	Unbalance
	Harmonic & THD

FRAUD DETECTION
Strong Magnetic field Detection and immunity
Top Cover and Terminal block cover opening/closing detection
Input - output swap detection
Neutral current fraud detection
Mains power cut detection
Power factor variation detection

CERTIFICATION
CE and IEC Declaration
DLMS SECURITY suite 0, 1, 2
MID Directive 2014/32/EU and the Radio Equipment Directive (RED) 2014/53/EU
DLMS CTT V3.0
Local certifications

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