



Figure similar

Measurement and monitoring unit SICAM MMU, Standard mounting rail device without display, Enclosure 96 mm x 96 mm x 100 mm, IP 20, 2 binary outputs, Ethernet interface RJ45, galvanically insulated voltage inputs, Ethernet interface and communication protocol: Modbus TCP and IEC 60870-5-104

Measuring functions	
measuring procedure / for voltage measurement	galvanically separated voltage transformer
sampling frequency / per sampling cycle	3 200 Hz
number of harmonics	0
product function / phase angle measurement	Yes
product function / active power measurement	Yes
product function / reactive power measurement	Yes
product function / apparent power measurement	Yes
product function / querying of limit violations	Yes
product function / logic function	No
type of measured value detection / min./max. values	No
type of measured value detection / mean values	Yes
accuracy class / of the measuring instrument / for measured variable active power / according to IEC 62053-22	0,2S
accuracy class / of the measuring instrument / for measured variable reactive power	0,5
File formats	
type of data transmission / via CSV	No
Energy Management functions	
product function / active energy measurement	Yes
product function / reactive energy measurement	Yes
product function / apparent energy measurement	Yes
Measuring inputs	
number of inputs / for voltage measurement	4
number of inputs / for current measurement	3
input voltage / between L and L / maximum	690 V
input voltage / between L and N / maximum	400 V
input current / maximum	10 A
Supply voltage	
supply voltage / at AC	110 ... 230 V
supply voltage / at DC	24 ... 250 V
measuring range frequency / at the measurement inputs	45 ... 65 Hz
type of voltage / of the supply voltage	AC/DC
Inputs / Outputs	
number of analog inputs	0
number of digital inputs	0
number of analog outputs	0
number of digital outputs	2

Communication	
protocol / is supported / IEC 61850	No
protocol / is supported / Modbus TCP	Yes
protocol / is supported / Modbus RTU	No
protocol / is supported / SNMP	No
protocol / is supported / OPC UA with PubSub	No
protocol / is supported / IEC 60870-5-103	No
protocol / is supported / IEC 60870-5-104	Yes
communication function / Modbus RTU as master	No
number of ports / of the Ethernet interface	1
product function / gateway function for Modbus RTU	No
Cybersecurity	
type of access control / role-based access control (RBAC)	No
product function / logging via Audit log	No
product function / logging via Security Eventlog	No
service / as web server / HTTPS	Yes
product function / firmware identifier	No
Time synchronization	
type of time synchronization	NTP
Mechanical Design	
width	96 mm
height	96 mm
depth	100 mm
weight	500 g
fastening method / DIN-rail mounting	Yes
fastening method / wall mounting	Yes
fastening method / rack mounting	Yes
type of electrical connection	screw terminal
connectable conductor cross-section	0.2 ... 2.5 mm ²
Degree of protection / protection class	
protection class IP / on the front	IP20
protection class IP / rear side	IP20
Environmental conditions	
ambient temperature / during operation	-25 ... +55 °C
ambient temperature / during storage	-25 ... +70 °C
Approval certification	
certificate of suitability / CE marking	Yes
certificate of suitability / UL approval	Yes
Further information	
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