

### ENVIRONMENTAL WORKING CHARACTERISTICS

Working T:  $-5 \div +50^{\circ}\text{C}$   
Storage T:  $-15 \div +60^{\circ}\text{C}$   
Humidity:  $\leq 90\%$

### STANDARDS / REGULATION

Safety: 61010-1:2001  
EMC: EN61000-6-2  
EN61000-6-4  
CISPR22-EN55022

### ELECTRICAL COMPATIBILITY CE

Energy: EN61036



EMC-3B  
EMC-3B-485



EMC-D3B  
EMC-D3B-485

EMC >>	3B	3B-485	D3B	D3B-485
<b>Mechanical characteristics</b>	Flush mounting DIN 96 x 96 mm   Depth 80 mm Panel cut out 92x92 mm   Weight: 0,5 kg		DIN rail mounting 6 modules of 17,5 mm Weight: 0,4 kg	
<b>Auxiliary supply</b>	110-230-400 V - 50-60 Hz		400 Vac L.L. - 50-60 Hz	
Option C1	20÷60 Vac/cc		-	
Option C2	90÷250 Vac/cc		-	
Option C3	-		230 Vac L.L.	
Option C4	-		110 Vac L.L.	
<b>Protection degree</b>	Frontal IP 52   Box IP 20 (IP65 with external cover)		Frontal IP 42   Box IP 20	
<b>Voltage inputs</b>	3 inputs 500V max (possible external VT ratio programmable) Voltage max 40kV			
Option 600	3 inputs 600 V max		-	
<b>Current inputs</b>	3 inputs 0,05÷5A rms (with external CT ratio programmable) Current max 10000A			
Option 1A	3 inputs 0,01÷1A rms			
Option T	Isolated inputs with internal CT (for use in M.V.)			
Option TT10	direct inputs for current max 16A with closed miniaturized CT included			
Option TT50	direct inputs for current max 63A with closed miniaturized CT included			
Option TT100	direct inputs for current max 100A with closed miniaturized CT included			
Option TTA50	direct inputs for current max 63A with openable miniaturized CT included			
Option TTA100	direct inputs for current max 100A with openable miniaturized CT included			
<b>Measured parameters</b>	kWh, kVarh, KVAh			
<b>Measuring accuracy</b>	Energie: < 1% class 1   EN62053-21 62053-23			
<b>Frequency measure</b>	40 ÷ 100 Hz			
<b>Communication port</b>	-	1Rs485 Communication protocol MODBUS-RTU baud rate 9600-19200 bps	-	1Rs485 Communication protocol MODBUS-RTU baud rate 9600-19200 bps
<b>Digital Outputs</b>	2 photomas 10÷300Vcc / 150 mA or 10÷250Vca/150 mA max for alarms or re-emission pulses (programmable time of pulse 100÷500msec.).	2 photomas 10÷300Vcc / 150 mA or 10÷250Vca/150 mA max for alarms or re-emission pulses (programmable time of pulse 100÷500msec.).	2 photomas 10÷300Vcc / 150 mA or 10÷250Vca/150 mA max for alarms or re-emission pulses (programmable time of pulse 100÷500msec.).	2 photomas 10÷300Vcc / 150 mA or 10÷250Vca/150 mA max for alarms or re-emission pulses (programmable time of pulse 100÷500msec.).
<b>Digital inputs</b>	1 Optoisolated 90÷250 Vca/cc for changing band energy meters	1 Optoisolated 90÷250 Vca/cc for changing band energy meters	1 Optoisolated 90÷250 Vca/cc for changing band energy meters	1 Optoisolated 90÷250 Vca/cc for changing band energy meters
<b>Display</b>	1 display with 10 mm red LED (3 digit of 10 mm - 7 segments) 8 digit + 1 decimal			

\* in this case serial output RS485 can not be used.