

DC-Multifunction Meter Q15UCL & Q96UCL



TECHNICAL DATA:

accuracy (class)	0,2
display	LCD backlighted 16 characters per line
number of display lines	2 lines
standard resolution	4 digits (9999) with floating point
resolution for energy data	8 digits
memory	kWh- and Ah-data, user settings
input voltage	max. 600V DC
input current	max. 10A DC
adjustment range voltage divider	1...10000 (input: 100V)
adjustment range shunt	1...10000A/..mV (max. 300mV)
measurement range	5..120% x Un; 5..120% x In
continuous overload	2In; 1,2Un
short-term overload (1sec.)	20In; 1,2Un
self-consumption: voltage	<0,5VA
current	<0,5VA
test voltage	2kV-50Hz-60s
surge test	5kV; 1,2/50µs
protection (Q15UCL)	IP40
protection (Q96UCL)	IP50 front; IP20 back
operating temperature	-10...50°C
storage temperature	-30...70°C
weight	0,5 Kg
alarm output / pulse output	max. 100mA / 250V (Photo-MOS)
complete galvanic separation	

Auxiliary voltage

standard auxiliary voltage	230V ±10% 50/60Hz (6VA)
on demand auxiliary voltage AC	24V, 48V or 400V
on demand auxiliary voltage DC	24V, 48V, 110V or 220V

ModBus RTU

interface	RS485 (ModBus RTU)
speed (bps)	9600/19200 bps
communication parameters	1,8,N,2/1,8,E,1/1,8,O,1
addressing range	1..247 (adjustable)

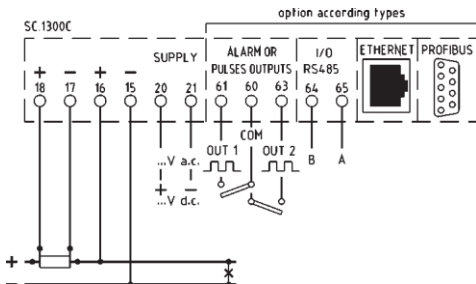
ModBus TCP / Webservice

ethernet interface	IEEE 802.3(u) 10 Base T / 100 Base TX
speed	10/100 Mbit/s (auto-negotiation)
duplex	half/full (auto-negotiation)

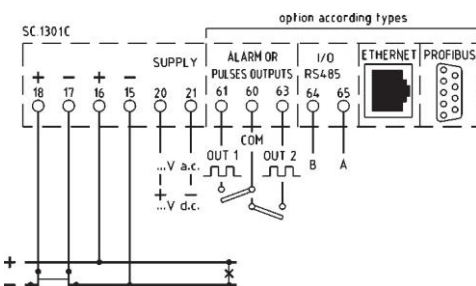
Profibus DP V0

network	NRZ asynchronous
baud rate	9,6kbit/s...12Mbit/s
addressing range	1...99 (adjustable)
manufactured according to	EN 50170

shunt in plus-line



shunt in minus-line



input voltage	600V D.C. directly
or	voltage divider 100V D.C
input current	10A D.C. directly
or	shunt 60mV; 100mV; 150mV; 300mV

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Display:

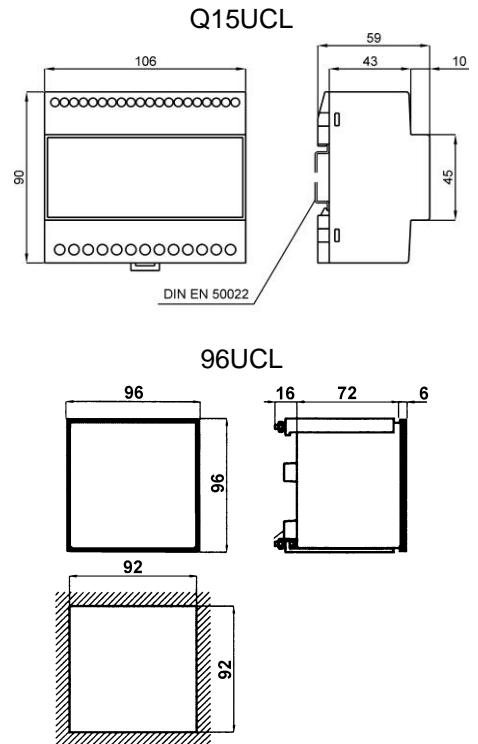
U(U)	123.4	voltage
I(A)	12.34	current
P(kW)	-123.4	active power
Pavg	123.4kW	average active power
Pmax	123.4kW	max. active power
kWh+	1234567.8	active energy counter (consumption)
kWh-	1234567.8	active energy counter (recovery)
Ah+	1234567.8	ampere-hour (consumption)
Ah-	1234567.8	ampere-hour (recovery)
UR123456U/1234 U		setting voltage divider
CR 12345/123mV		setting shunt

Alarm and pulse output

Each unit is equipped with two adjustable alarm or pulse outputs. Pulse values are directly proportional with active energy and programmable. Alarm signal is available for pre-defined minimum or maximum values. A switching delay between 0 and 99 seconds may be adjusted.

Order Code:

Q15UCL
Q96UCL



Ordering Information

- Order Code
- Input Voltage (nominal voltage or voltage divider ratio)
- Input Current (nominal current or shunt ratio)
- Shunt Position (plus-line or minus-line)
- Auxiliary Voltage (on demand)
- ModBus TCP or ProfiBus (on demand)

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