



Communication enabler

4511

- Programming display for system 4000 and 9000 devices as well as selected system 3000 devices
- Modbus RTU protocol interface over RS-485
- Monitor process value from the built-in display
- High 2.5 kV isolation to host unit
- Shielded RJ45 connector on top





















Application

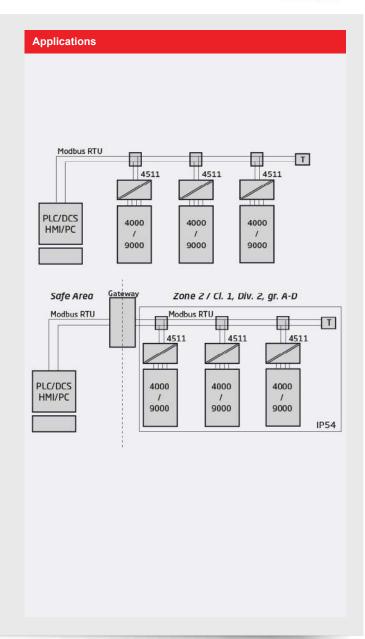
- The 4511 detachable display adds Modbus RTU RS-485 serial communications to all current and future 4000/9000 units.
- · The unit converts a wide array of sensors and analog device signals measured by the system 4000 like uni- and bipolar mA and voltage signals, potentiometer, Lin. R, RTD and TC, to a Modbus communication line signal.
- When mounted on a system 9000 device any signal coming from or going to I.S. classified area, like AI, AO, DI and DO signals, can be converted to a Modbus network.
- · All individual unit operating parameters can easily and quickly be configured by using the Modbus communication or by using the front display menu.
- The easily readable 4511 display can be used to read the process signal, simulate the output signal, indicate sensor errors and internal device errors.
- The 4511 can be moved from one device to another. The individual system 3000 / 4000 / 9000 device configuration of a transmitter can be saved and downloaded to subsequent transmitters.

Technical characteristics

- 4511 has full functionality for unit programming, process signal monitoring and diagnostics handling.
- Multidrop half-duplex connection via shielded RJ45 connector.
- High safe galvanic isolation of 2.5 kVAC between the serial wiring and the connected system 4000 / 9000 units.
- · Modbus parameters such as address, baud rate, stop bit(s), and parity bit are configured from the 4511 display, which also stores parameters.

Mounting / installation / programming

- · Mounting in Zone 2 / Div 2.
- · All configuration data from a PR 3000 / 4000 / 9000 device can be transferred to a PC using the PR 4590.
- · Programmed parameters can be protected by a userdefined password.
- · When mounted on devices that are installed upside down, a menu item allows the display on the 4511 to be rotated 180[sup]o[/sup] and the up/down buttons to switch function.



Order

Туре	Description
111200000000	Communication enabler Configmate interface

20°C to +60°C
20°C to +85°C
. < 95% RH (non-cond.)
. IP20
. Pollution degree 2 & meas. / overvoltage cat. II
. 73.2 x 23.3 x 26.5 mm
. 109 x 23.5 x 131 mm
. 30 g
. RJ45 - shielded
. 0.15 W
. 0.10 **
. 2.5 kVAC / 250 VAC reinforced
isolation
. < 20 ms
> 60 dB
. > 50 Hz
. No loss of communication
. RS-485 half duplex
. Modbus RTU
. RTU - slave
. Up to 32 (w/o a repeater)
2400, 4800, 9600, 19200,
38400, 57600, 115200
. Yes - can be configured ON or OFF
. Even, Odd, None
. 1 or 2
. 1247

I.S. / Ex marking ATEX	Ex ec IIC T5 Gc CI I, Div 2, Gp A, B, C, D T5; CI I, Zn 2, AEx ec IIC T5 Gc		
Observed authority requirements			
EMC	2014/30/EU & UK SI 2016/1091		
LVD	2014/35/EU & UK SI 2016/1101		
ATEX	2014/34/EU & UK SI 2016/1107		
RoHS	2011/65/EU & UK SI 2012/3032		
EAC	TR-CU 020/2011		
Approvals			
ATEX	DEKRA 13ATEX0098 X		
IECEX			
c FM us	FM22US0014X /		
	FM22CA0009X		
UKEX	DEKRA 21UKEX0167X		
c UL us, UL 61010-1	E314307		
DNV Marine	TAA0000JD		