Display / programming front

4510

– Programming display for all past and present 4000 / 9000 series devices, 3000 series devices where applicable, and all versions of ConfigMate 4590
– Monitor process value and status from the built-in display
– Scrolling help text in 7 languages

Applications
- Communications interface for programming and modification of operational parameters.
- The easily readable 4510 display can be used to monitor the process signal, simulate the output signal, indicate sensor errors and internal device errors.
- The 4510 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
- Easy-to-read dot matrix LCD display.
- Backup memory for loading and saving of device configuration.
- Programming access can be blocked by assigning a password. The password is saved in the device in order to ensure a high degree of protection against unauthorized modifications to the configuration.

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.
- When mounted on devices that are installed upside down, a menu item allows the display on the 4510 to be rotated 180° and the up/down buttons to switch function.
- The PR 4510 is approved and certified as an add-on component for the PR 3000, 4000 and 9000 series of devices. All technical characteristics are valid with the PR 4510 attached.

Order

Type	Description
4510	Display / programming front
4590	ConfigMate interface

Environmental Conditions

Operating temperature.................................... -20°C to +60°C
Storage temperature...................................... -20°C to +85°C
Relative humidity... < 95% RH (non-cond.)
Protection degree.. IP20
Installation in... Pollution degree 2 & meas. / overvoltage cat. II

Mechanical specifications

Dimensions (HxWxD).................................... 73.2 x 23.3 x 26.5 mm
Dimensions (HxWxD) w/ 4000/9000 unit... 109 x 23.5 x 131 mm
Weight approx... 20 g

Common specifications

Supply
Supply voltage.. 6.5...20 V supplied from host 4000 / 9000 device
Max. required power...................................... 0.15 W

I.S. / Ex marking

ATEX.. II 3 G Ex ec IIC T5
IECEx... Ex ec IIC T5 Gc
FM, US.. Cl I, Div 2, Gp A, B, C, D T5; Cl I, Zn 2, Grp IIC T5
FM, CA.. Cl I, Div 2, Gp A, B, C, D T5
FM, US.. Cl I, Div 2, Gp A, B, C, D T5; Cl I, Zn 2, AEx ec IIC T5 Gc
FM, CA.. Cl I, Div 2, Gp A, B, C, D T5; Ex ec IIC T5 Gc

Observed authority requirements

EMC.. 2014/30/EU & UK SI 2016/1091
ATEX.. 2014/34/EU & UK SI 2016/1107
RoHS... 2011/65/EU & UK SI 2012/3032

Approvals

ATEX.. DEKRA 13ATEX0098 X
IECEx... DEK 13.0026 X
UKEX.. DEKRA 21UKEX0167X
c FM us... FM22US0014X / FM22CA0009X
c UL us, UL 61010-1..................................... E314307
DNV Marine... TAA00000JD