



## 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