# SIGNAL CONVERTER 520.11



ELECTRONIC ACCESSORY | DISPLAY AND CONTROL DEVICES



### APPLICATION

The spectrum of applications primarily covers the transmission of instantaneous values and provides the basis for the display and/or recording of flow rates in pipes. The current output is also used for various control and monitoring tasks.

### FEATURES

- Designed as snap-on housing for mounting rail
- 2-channel control options for compound meter: infrared reflex pulse transmitter (571), two-wire proximity switch to DIN 19234 (NAMUR) (572, 573) self-optimizing level, electronic counter module, mechanical compact energy meter RAY
- > Front-panel programming buttons for setting menu controlled functions
- Freely programmable input pulse values
- Filtered output signal 0/4 mA ... 20 mA and 0/2 V ... 10 V
- 1 floating output (make contact, open collector)
- Electrically isolated measuring and supply circuits
- Selftest, self-monitoring
- LC display for flow rate (m<sup>3</sup>/h or l/s); min./max. flow rate; meter reading; menu guidance
- M-Bus interface (option)



# SIGNAL CONVERTER 520.11

ELECTRONIC ACCESSORY | DISPLAY AND CONTROL DEVICES

## FUNCTION

The microprocessor-controlled LCD universal signal converter converts the pulses from the volume measuring components in the water meters (main meters and submeters) to a dc current proportional to the flow rate (digital-analogue converter). The current amplitude is proportional to the instantaneous flow rate.

The converter is also used for converting high-resolution pulses to decadic pulses (e.g. m3). The signal converter 520.11 is programmed via touch controls on the front panel.

### **TECHNICAL DATA**

		SIGNAL CONVERTER 520.11
Supply voltage		20 250 V AC / DC, approx. 100 mA 10 mA
Linearity	%	< 0.4
Temperature drift	%	< 0.5 (0 55 °C)
Storage temperature	°C	-20 +70
Operating temperature	°C	-10 +55
Inputs		Infrared reflex light barrier (571), Infrared light barrier with amplifier (PV-14), Proximity switch (NAMUR) to DIN 19625/EN 50227 (572, 573), electronic counter module, RAY
Input frequency range	Hz	0 0.1 to 0 99.9
Output current	mA	0 (4) 20 (max. load 650 Ω)
Output voltage	V	0 (2) 10 (min. load 3 kΩ)
Pulse output		Optocoupler bipolar FET (make), max. 230 V AC / 100 mA
Pulse value		Freely adjustable
Interface		M-Bus (optional)
Display indication		LCD, 2-line
Values displayed		Current flow rate, current meter reading, min./max. flow rates
Setting / programming		Via touch controls / menu-controlled entry of programming data
Housing - type		Snap-on housing
Housing - fixing		Mounting rail to DIN 46277
Protection class		IP 30
Weight	g	Approx. 400
EMC - interference immunity		EN 50081-1
EMC - noise emission		EN 50082-2

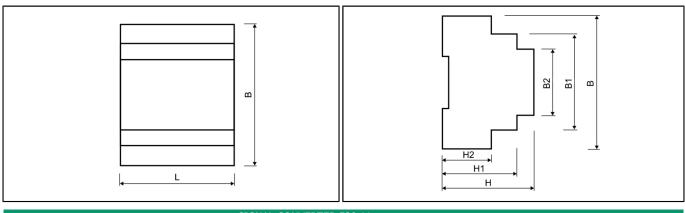
#### NOTE

The use of overvoltage protectors is recommended if long cables are necessary for connecting the measuring sensor to the signal converter or the converter to the display unit.

# SIGNAL CONVERTER 520.11

ELECTRONIC ACCESSORY | DISPLAY AND CONTROL DEVICES

### DIMENSIONS

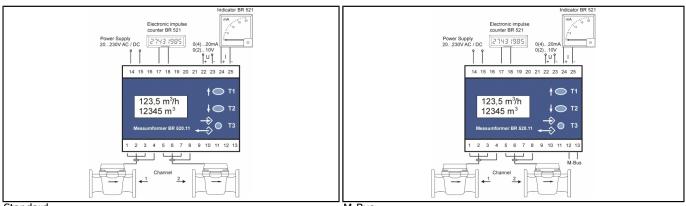


			SIGNAL CONVERTER 520.11
Length	L	mm	72
Width	В	mm	91
Width	B1	mm	65
Width	B2	mm	46
Height	Н	mm	62
Height	H1	mm	51
Height	H2	mm	33

### **ORDER REFERENCES**

Туре	Standard	Option M-Bus
Article number	520 000 18	520 000 19

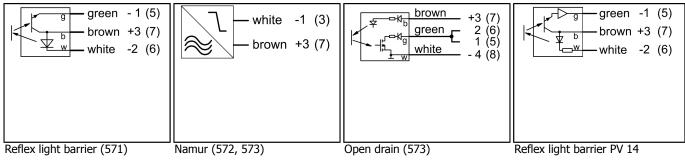
#### CONNECTIONS



Standard

M-Bus

## CONNECTION OF SENSORS



Diehl Metering GmbH • Industriestrasse 13 • 91522 Ansbach • Germany

Phone: +49 981 1806-615 • infc-dmde@diehl.com • www.diehl.com/metering Subject to technical adjustments

# SIGNAL CONVERTER 520.11

ELECTRONIC ACCESSORY | DISPLAY AND CONTROL DEVICES

### **CONNECTION OF SENSORS / METERS**

