

01 Properties

02 Design and function

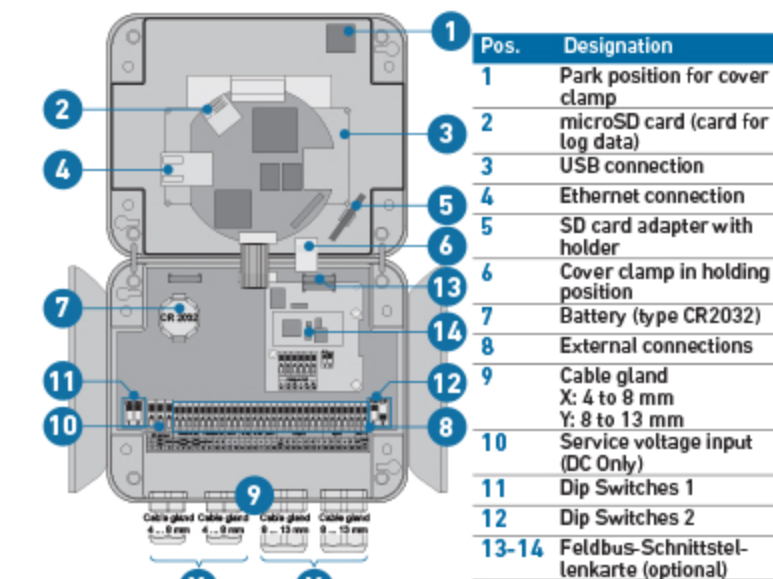
03 Wall mounting and preparation

04 Connections

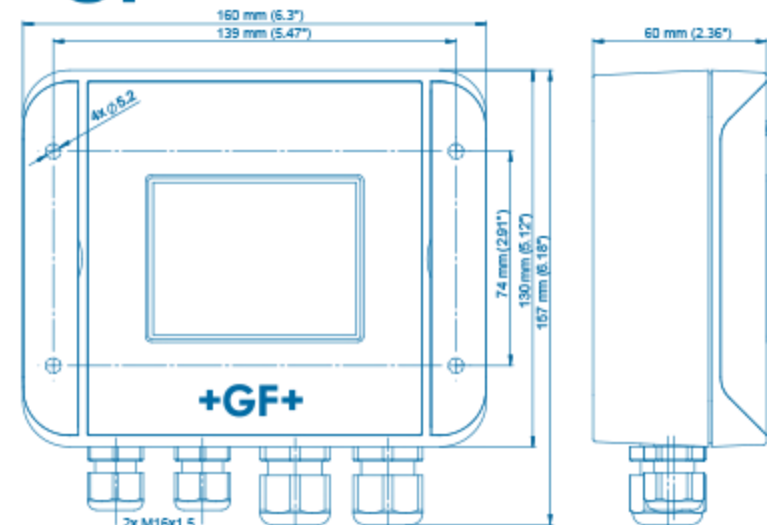
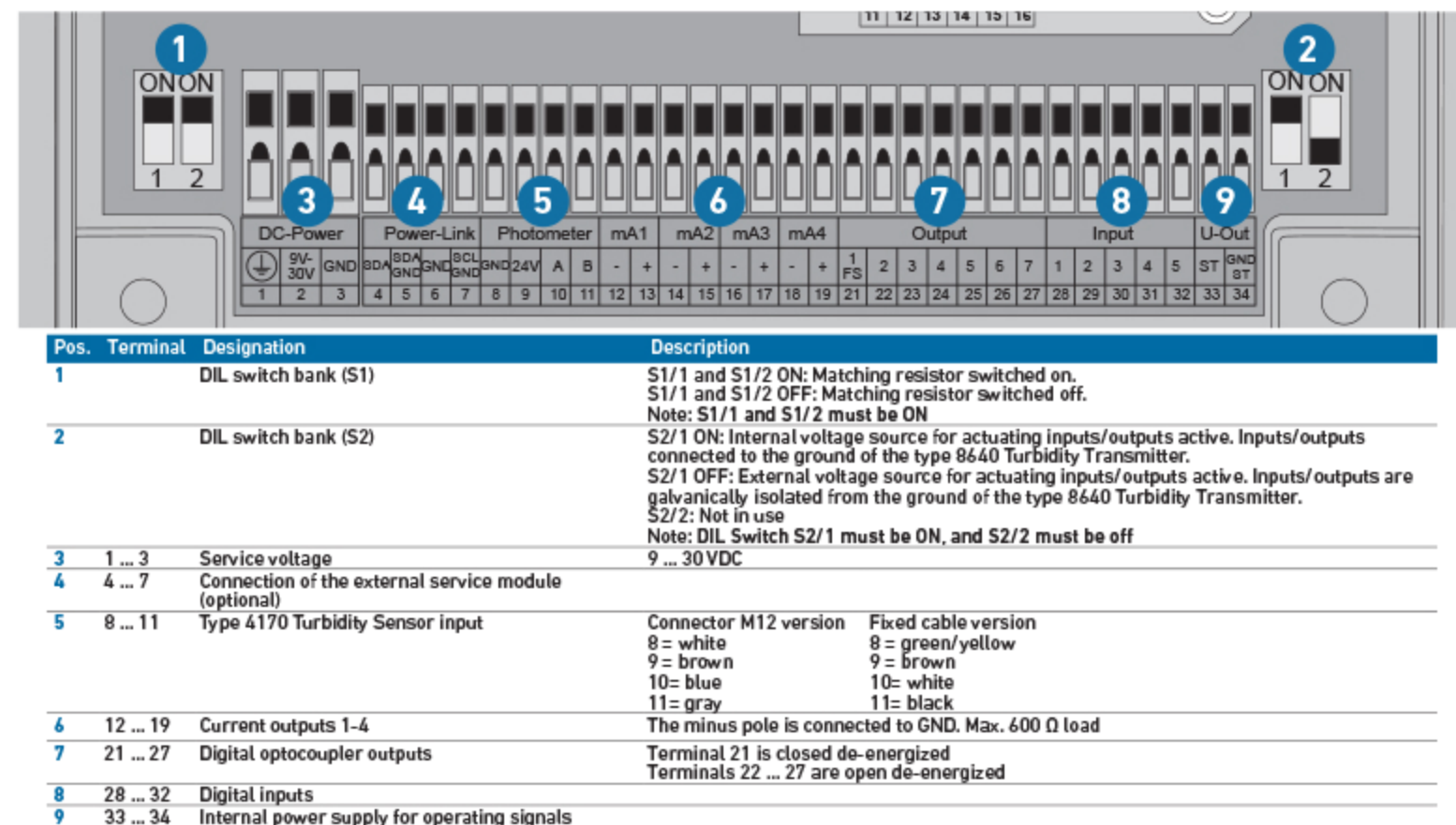
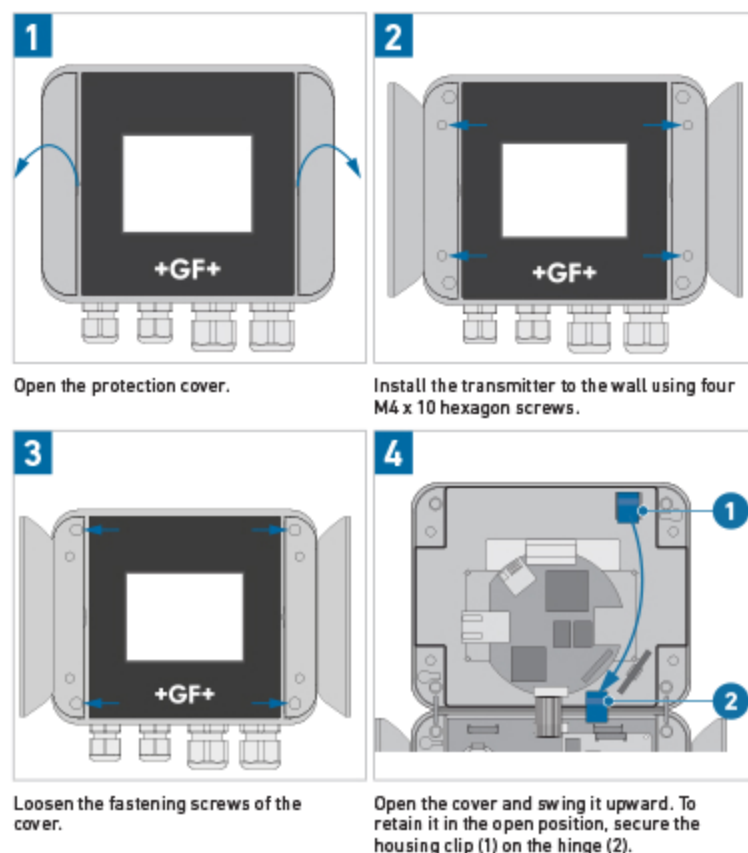
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Technical Data		
Electrical	Power supply	9 ... 30 VDC
	Power consumption	5 W
Resolution		0.001 FNU
Display	Characteristics	¼ VGA with touchscreen
	Resolution	320 x 240 pixels with 3.5" diagonal
Output	Analog	4 x 0/4 ... 20 mA outputs, galvanically isolated up to max. 50 V to earth and max. 500 Ω load
	Digital	7 x digital outputs up to max. 30 VDC, freely configurable, of which 1 output as relay normally closed
Input	Analog	1x type 4170 Turbidity Sensor
	Digital	5 x digital inputs up to max. 30 VDC, freely configurable
Fieldbus	Standard	Modbus TCP / Ethernet
	Optional	Modbus RTU, Profibus DP, Profinet IO
Materials	Housing	ABS
Protection class	IP66	
Dimensions	160 x 157 x 60 mm	
Weight	Approx. 0.6 kg	

Intended Use
The Type 8640 Turbidity Transmitter is designed for monitoring and configuring the Type 4170 Turbidity Sensor in industrial applications.



NOTICE
To maintain IP66 protection, ensure that all four fastening screws on the housing are securely tightened and that the cable gland is properly fastened after wiring. Improper sealing may lead to moisture ingress and damage to internal components.



Type 8640 Turbidity Transmitter

Quick Start Guide

NOTE
This document does not replace the full operating instructions. The full operating instructions must be read before installation, operation or maintenance.

SCAN ME
FULL operating instruction



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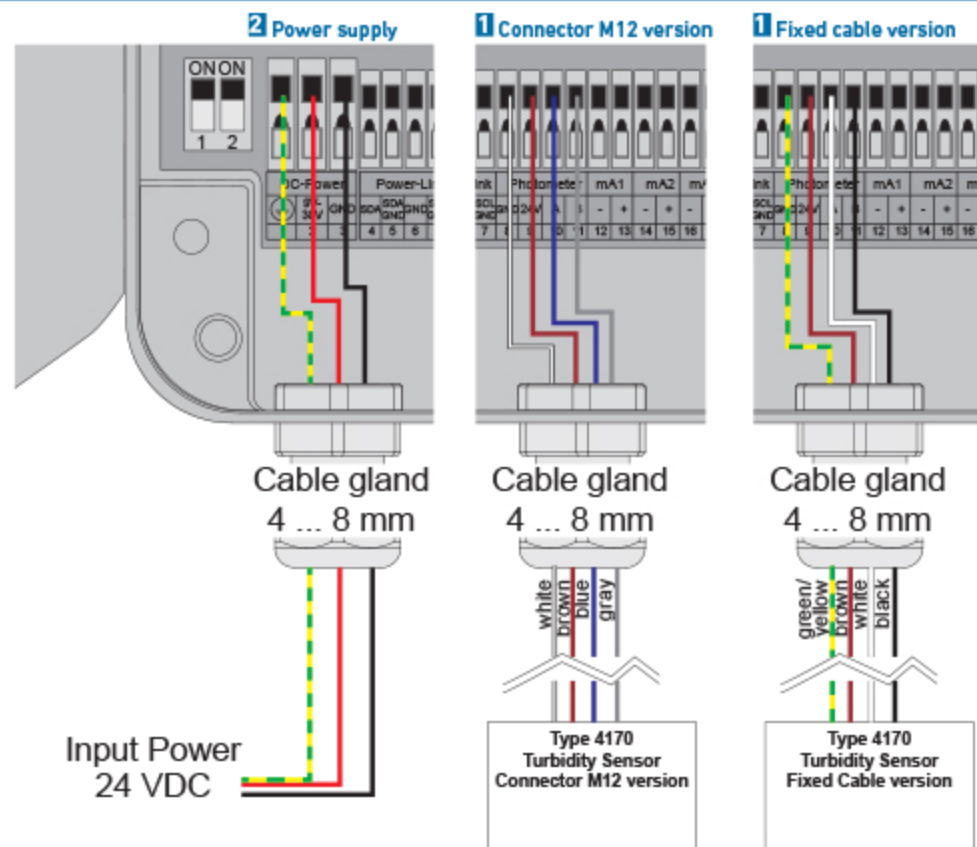
05 Wiring

1 Wire Type 4170 Turbidity Sensor to Transmitter

1. Wiring the Type 4170 Turbidity Sensor to terminals 8 ... 11 of the Type 8640 Turbidity Transmitter.
2. Unused wires must be insulated.
3. DIL switch bank (S1): Set S1/1 and S1/2 to ON.

2 Wire power supply to transmitter

1. Wire the 24 VDC power supply to the terminals 1 ... 3.
2. Close the cover before turning on the power supply.

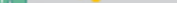
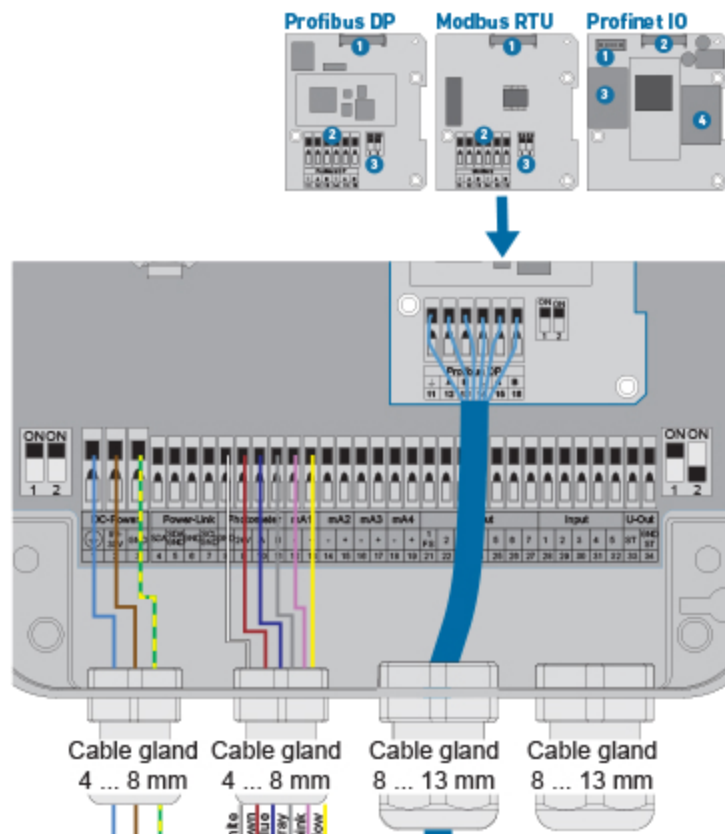


⚠ DANGER!
Electric shock!
Touching electrically charged components can result in injury and damage to property.
► Disconnect the device from the power supply before opening the cover or making any modifications to the wiring.

NOTICE
Before connection, the cables are inserted through the cable gland into the transmitter and then locked.

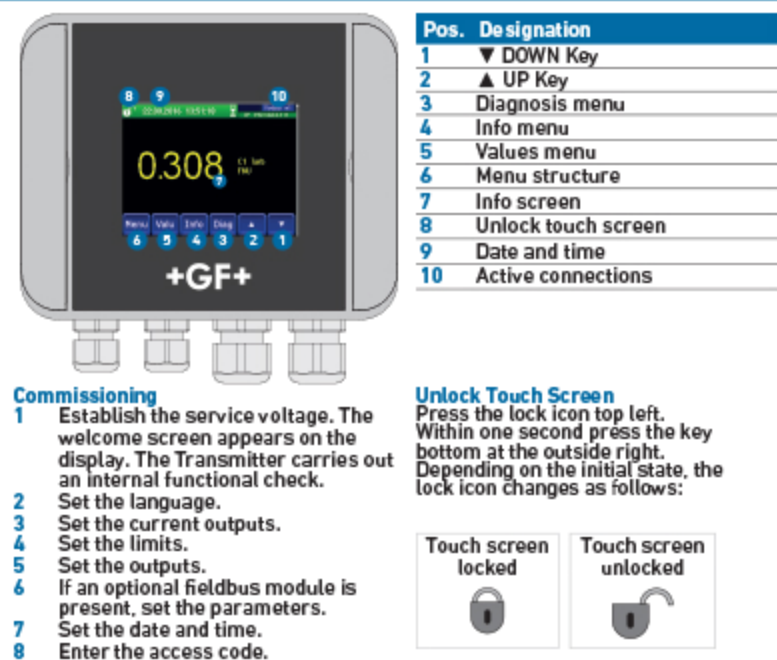
06 Fieldbus connection (optional)

Install and wire fieldbus interface card (optional)



See separate fieldbus documentation.

07 Commissioning



Operating modes
Measuring mode
 Standard measurement mode, showing measurement values and status.
Service mode
 Enter the service mode for system configuration. To enter the service mode, press the Menu button, set the access code and confirm with OK.
 During service mode, the measuring procedure is interrupted and the main menus appear on the display.
 To exit service mode and entering measuring mode, press the Meas button.

08 Hazardous substances declaration

产品中有害物质的名称及含量										
Toxic and hazardous substance name and containment in product										
部分名称 Part Name	有毒有害物质 Toxic and hazardous substances									
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr+6)	多溴联苯 (PBB)	多溴二联苯 (PBDE)	邻苯二甲酸二 (2-乙基己基) 酯 Bis(2-ethylhexyl)phthalate (DEHP)	邻苯二甲酸丁基酯 (BBP)	邻苯二甲酸二丁酯 (DBP)	邻苯二甲酸二异丁酯 (DIBP)
Type 8640 Transmitter	0	0	0	0	0	0	0	0	0	0

本表格根据SJ/T 11364 (CN) 编制。本产品有以下符号：

O : 表示该部件所有同质材料中危险物质的含量均低于GB/T 26572规定的限值。

O : Indicates that the content of the hazardous substance in all homogeneous materials of the part is below the limit specified in GB/T 26572

X : 表示该部件中至少一种同质材料中的有毒物质含量超过了GB/T 26572规定的限值。

X : Indicates that the content of the toxic substance at least one of the homogeneous materials of the part exceeds the limits specified in GB/T 26572.

EC and UKCA declaration of conformity
Georg Fischer Piping Systems Ltd., Ebnatstrasse 111, 8201 Schaffhausen, Switzerland, hereby declares that the products listed below conform to the applicable EU directives and comply with the relevant harmonised standards specified.
The CE marking on the product confirms this conformity.
Any modifications which affect the specified technical data and the intended use will invalidate this manufacturer's declaration.

Group	Type	EU-Directive
Transmitters	Type 8640	EMC 2014/30/EU
	Turbidity	WEEE 2019/19/EU
	Transmitter	RoHS 2011/65/EU

Schaffhausen, 07.2025

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