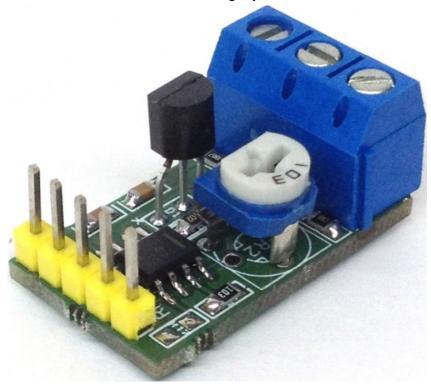
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HACH DOC2739790667 4-20 mA Analog Input Module Instruction Manual

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4.1 References

General information

In no event will the manufacturer be liable for direct, indirect, special, incidental or consequential damages resulting from any defect or omission in this manual. The manufacturer reserves the right to make changes in this manual and the products it describes at any time, without notice or obligation. Revised editions are found on the manufacturer's website.

Safety information

The manufacturer is not responsible for any damages due to misapplication or misuse of this product including, without limitation, direct, incidental and consequential damages, and disclaims such damages to the full extent permitted under applicable law. The user is soley responsible to identify critical application risks and install appropriate mechanisms to protect processes during a possible equipment malfunction. Please read this entire manual before unpacking, setting up or operating this equipment. Pay attention to all danger and caution statements. Failure to do so could result in serious injury to the operator or damage to the equipment. Make sure that the protection provided by this equipment is not impaired. Do not use or install this equipment in any manner other than that specified in this manual.

Use of hazard information

DANGER

Indicates a potentially or imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

Indicates a potentially or imminently hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation that may result in minor or moderate injury.

NOTICE

Indicates a situation which, if not avoided, may cause damage to the instrument. Information that requires special emphasis

Precautionary labels

Read all labels and tags attached to the instrument. Personal injury or damage to the instrument could occur if not observed. A symbol on the instrument is referenced in the manual with a precautionary statement.

This symbol, if noted on the instrument, references the instruction manual for operation and/or safety information.



This symbol indicates that a risk of electrical shock and/or electrocution exists.

This symbol indicates the presence of devices sensitive to Electro-static Discharge (ESD) and indicates that care must be taken to prevent damage with the equipment.

Electrical equipment marked with this symbol may not be disposed of in European domestic or public disposal systems. Return old or end-of-life equipment to the manufacturer for disposal at no charge to the user.

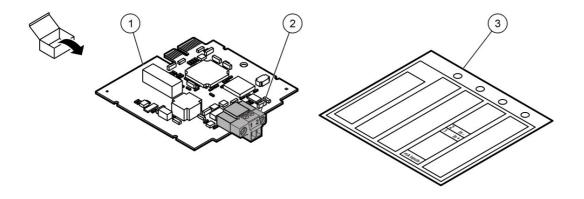
Product overview

The 4-20 mA input module lets the controller accept one external analog signal (0-20 mA/4-20 mA). The input module connects to one of the analog sensor connectors inside the controller.

Product components

Make sure that all components have been received. Refer to Figure 1. If any items are missing or damaged, contact the manufacturer or a sales representative immediately.

Product components



- 1. 4-20 mA analog input module
- 2. Module connector
- 3. Label with wiring information

Icons used in illustrations

• Manufacturer supplied parts



· User supplied parts



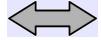
• Look



• Listen



• Do one of these options



Specifications

Specifications are subject to change without notice.

Specification	Details
Input current	0–25 mA
Input resistance	100 Ω
Wiring	Wire gauge: 0.08 to 1.5 mm2 (28 to 16 AWG) with an insulation rating of 300 VAC or higher
Operating temperatur e	-20 to 60 °C (-4 to 140 °F); 95% relative humidity, non-condensing
Storage temperature	-20 to 70 °C (-4 to 158 °F); 95% relative humidity, non-condensing

Installation

DANGER

Multiple hazards. Only qualified personnel must conduct the tasks described in this section of the document.

DANGER

Electrocution hazard. Remove power from the instrument before this procedure is started.

DANGER

Electrocution hazard. High voltage wiring for the controller is conducted behind the high voltage barrier in the controller enclosure. The barrier must remain in place unless a qualified installationtechnician is installing wiring for power, alarms, or relays.

WARNING

Electrical shock hazard. Externally connected equipment must have an applicable country safety standard assessment.

NOTICE

Make sure that the equipment is connected to the instrument in accordance with local, regional and national requirements.

Electrostatic discharge (ESD) considerations

NOTICE

Potential Instrument Damage. Delicate internal electronic components can be damaged by static electricity, resulting in degraded performance or eventual failure. Refer to the steps in this procedure to prevent ESD damage to the instrument:

- Touch an earth-grounded metal surface such as the chassis of an instrument, a metal conduit or pipe to discharge static electricity from the body.
- Avoid excessive movement. Transport static-sensitive components in anti-static containers or packages.
- Wear a wrist strap connected by a wire to earth ground.
- Work in a static-safe area with anti-static floor pads and work bench pads.

Install the module

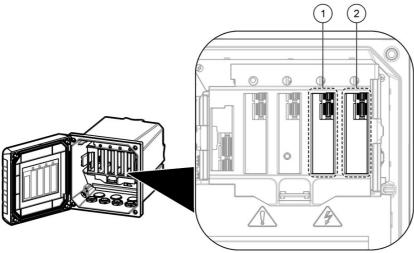
Install the module in the controller. Refer to the illustrated steps that follow.

Notes:

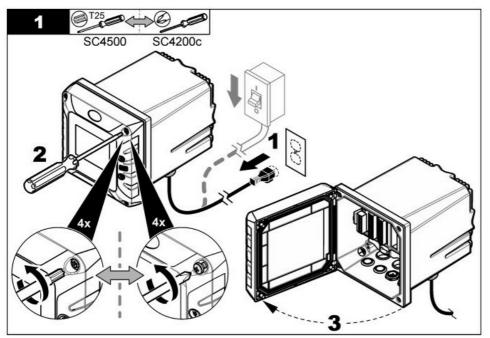
- Make sure that the controller is compatible with the 4–20 mA analog input module. Contact technical support.
- To keep the enclosure rating, make sure that all unused electrical access holes are sealed with an access hole cover.
- To maintain the enclosure rating of the instrument, unused cable glands must be plugged.
- Connect the module to one of the two slots on the right side of controller. The controller has two analog module slots. The analog module ports are internally connected to the sensor channel. Make sure that the analog module and the digital sensor are not connected to the same channel. Refer to Figure 2.

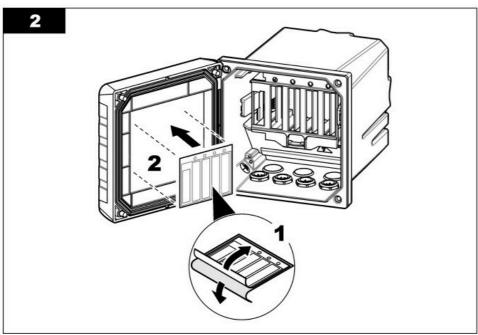
Note: Make sure that only two sensors are installed in the controller. Although two analog module ports are available, if a digital sensor and two modules are installed, only two of the three devices will be seen by the controller.

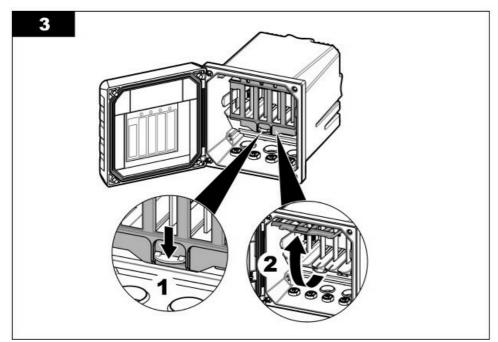
Figure 2 mA input module slots

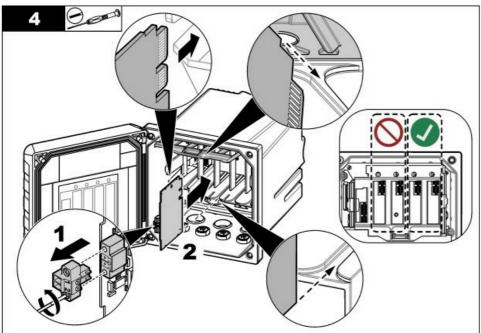


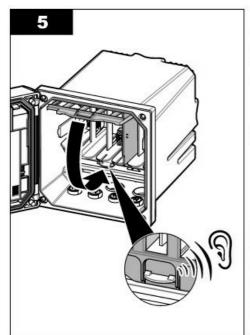
- 1. Analog module slot—Channel 1
- 2. Analog module slot—Channel 2

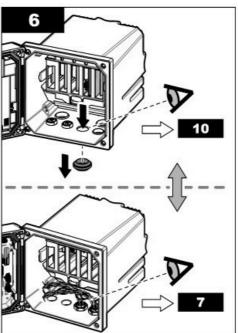


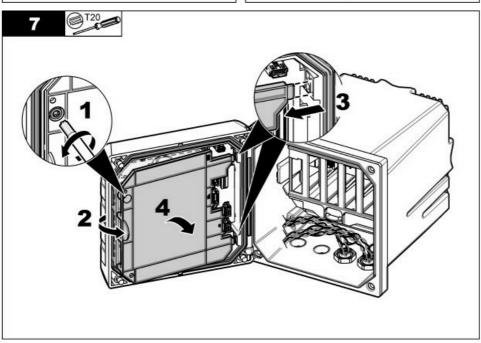


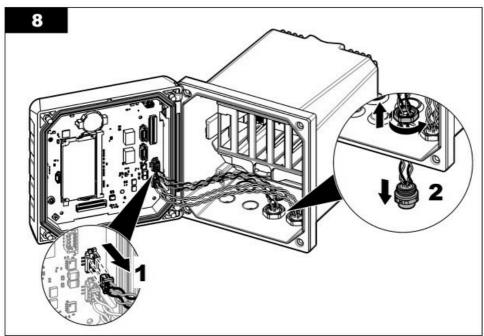


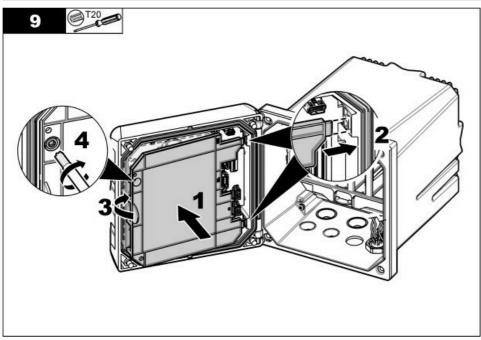


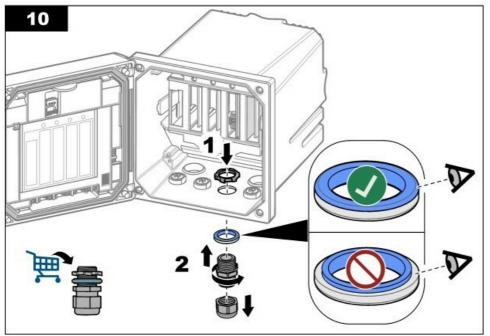


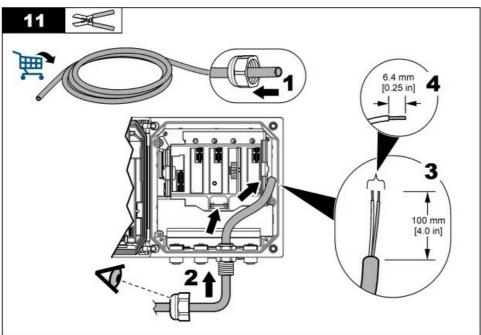


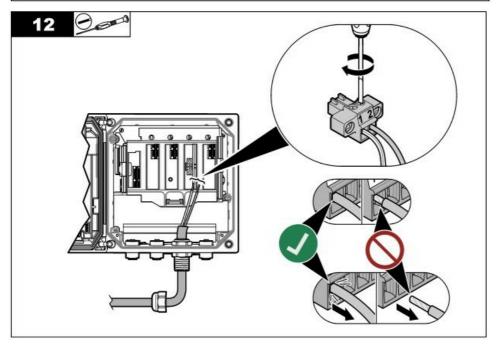


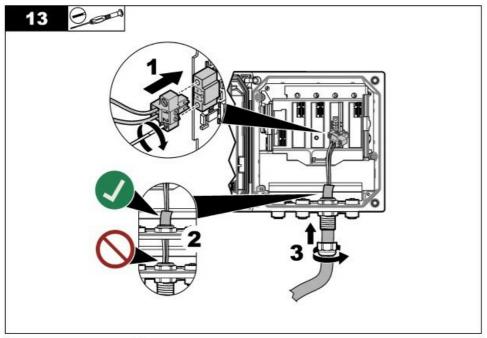


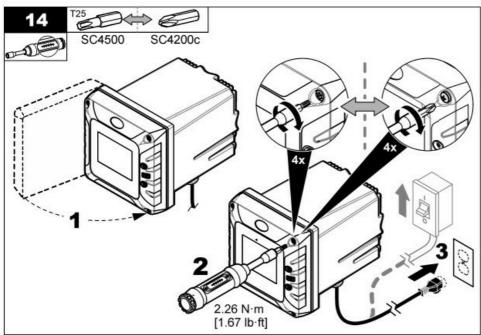












Documents / Resources



<u>HACH DOC2739790667 4-20 mA Analog Input Module</u> [pdf] Instruction Manual DOC2739790667 4-20 mA Analog Input Module, DOC2739790667, 4-20 mA Analog Input Module, Analog Input Module, Module

References

- Geräte und Reagenzien für die Wasserqualitätsanalyse | Hach
- O Hach | Hach