

# Special Documentation **GM35, GM700, GM901**

Supplement for the Electrical Connections of Control Unit  
AWE

**Described product**

Product name: GM35  
GM700  
GM901

**Manufacturer**

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**Original document**

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## 1 About this document

### 1.1 Additional documentation / information

This document is an Addendum to the Operating Instructions for the GM35, GM700 and GM901 in-situ analyzers and is only to be used in conjunction with their valid Operating Instructions.

It supplements or replaces the contents of the Operating Instructions listed below with all information and instructions required for the electrical connections, in particular the connections for the power supply and the respective grounding connections on control unit AWE. All other contents of these instructions remain valid.

The Operating Instructions supplied must be observed in each case:

- GM35: 8029930 (probe version) and 8029932 (cross-duct version)
- GM700: 8029926 (probe version) and 8029928 (cross-duct version)
- GM901: 8029921 (probe version) and 8029924 (cross-duct version)

## 2 For your safety

### 2.1 Main operating information

Observe the following safety precautions:



**NOTICE: This document is only valid in combination with the GM35, GM700, GM901 Operating Instructions.**

- ▶ Observe all operating and safety information of the GM35, GM700, GM901 Operating Instructions!
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## 3 Supplements to the Operating Instructions

### 3.1 For GM35 and GM700 Operating Instructions

#### 3.1.1 Supplement for the overview of the connection cables

Use of shielded cables for the signal cables to the system peripherals:

- The specifications of the power supply cables and signal cables to the system peripherals have changed.



**Note:**

- ▶ Observe the different Tables for the device versions!
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## 3.1.1.1 Cables for GM35 and GM700 - probe version

No.	Cable	Length [m]	Scope of delivery	
①	Purge air attachment sender/receiver unit – purge air unit low-pressure monitor (open cable end)	5	Included	Prefabricated with plug-in connector, open cable end
②	Sender/receiver unit – purge air attachment (CAN bus)	0.8	Included	Prefabricated with plug-in connector
③	<ul style="list-style-type: none"> <li>• Sender/receiver unit – control unit (CAN bus)</li> <li>or</li> <li>• Sender/receiver unit – connection unit (option)</li> </ul>	4	Included	Prefabricated with plug-in connector, open cable end
④	Connection unit – control unit (CAN bus)	Max. 300	Option	Open cable ends, 5 × 0.5 mm <sup>2</sup>
⑤	Power supply: <ul style="list-style-type: none"> <li>• Sender/receiver unit</li> <li>• Purge air unit</li> <li>• Control unit</li> </ul>		Not included	3 × 1.5 mm <sup>2</sup>
⑥	Control unit: Signal cables to system peripherals		Not included	Min. 0.5 mm <sup>2</sup> ; shielded cable

## 3.1.1.2 Cables for GM35 and GM700 - cross-duct version

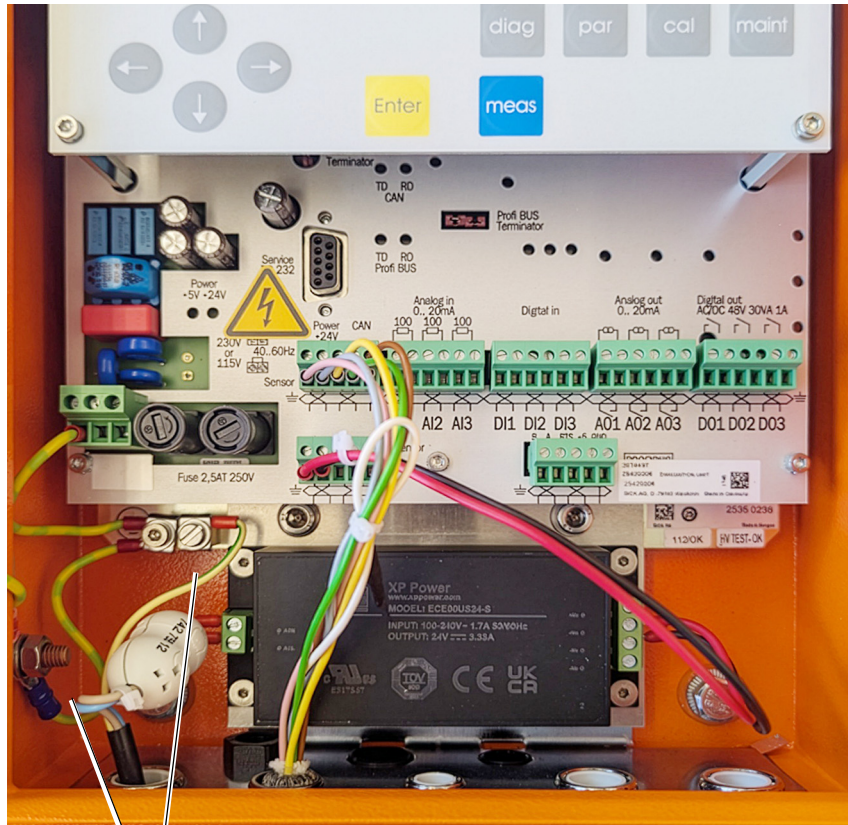
No.	Cable	Length [m]	Scope of delivery	
①	Purge air attachment sender/receiver unit – external temperature and pressure sensor		Not included	0.5 mm <sup>2</sup>
②	Sender/receiver unit – purge air attachment (CAN bus)	0.8	Included	Prefabricated with plug-in connector
③	Sender/receiver unit – reflector unit (CAN bus)	5 10 12 15	Included Option Option Option	Prefabricated with plug-in connector
④	<ul style="list-style-type: none"> <li>• Sender/receiver unit – control unit (CAN bus)</li> <li>or</li> <li>• Sender/receiver unit – connection unit (option)</li> </ul>	4	Included	Prefabricated with plug-in connector, open cable end
⑤	Connection unit (option) – control unit (CAN bus)	Max. 300	Option	Open cable ends, 5 × 0.5 mm <sup>2</sup>
⑥	Power supply: <ul style="list-style-type: none"> <li>• Purge air unit</li> <li>• Control unit</li> <li>• Connection unit (option)</li> </ul>		Not included	3 × 1.5 mm <sup>2</sup>
⑦	Control unit: Signal cables to system peripherals		Not included	Min. 0.5 mm <sup>2</sup> ; shielded cable
⑧	Purge air attachment sender/receiver unit – purge air unit low-pressure monitor (open cable end)	5	Included	Prefabricated with plug-in connector, open cable end

## 3.2 For GM35, GM700 and GM901 Operating Instructions

### 3.2.1 Supplement for electrical connection of control unit


**Note:**

- ▶ Observe the changed specifications for the power supply!



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1 Grounding cable connection options

Fig. 1: Control unit AWE: Overview of connections for the power supply

#### 3.2.1.1 Connecting the grounding cable (supplement to Section 6.5.3 of the Operating Instructions)

**Procedure**

- 1 Connect the grounding cable in accordance with Section 6.5.3 of the Operating Instructions.
  - Strip the cable for the power supply generously (approx. 9 cm).
- 2 Connect conductors N and L according to the labeling on the power supply unit.



Fig. 2: Power supply connection

- 3 Remove the two cable ties and the hinged ferrite from the bag supplied with the AWE.



Fig. 3: Accessories for control unit AWE

- 4 Attach the first cable tie 5 mm behind the wire end ferrules on the N/L conductor and tighten.

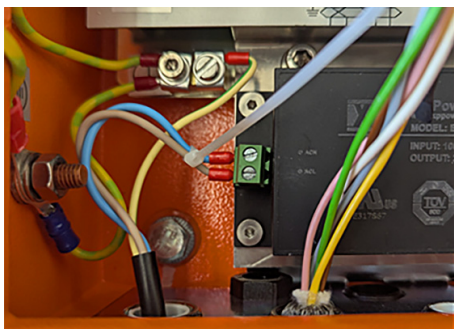


Fig. 4: Cable tie N/L conductor (power supply unit)

- 5 Place the hinged ferrite around the N/L conductor (not around PE) and close it.  
6 Attach the second cable tie behind the ferrite, tighten and shorten.

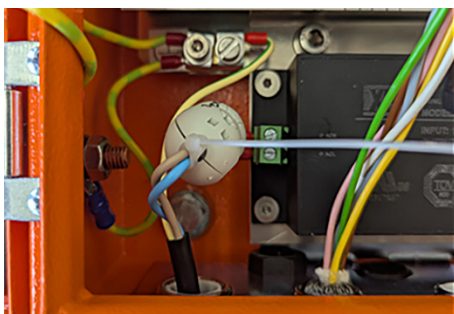


Fig. 5: Hinged ferrites and second cable tie

- 7 The lower dummy plugs can no longer be used for additional cable glands.



Fig. 6: Blocked cable glands

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