









Model number

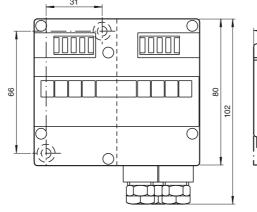
VBA-2E-G4-U

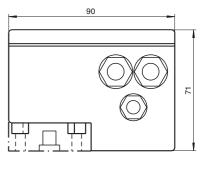
G4 module IP65 2 analog inputs (voltage)

Features

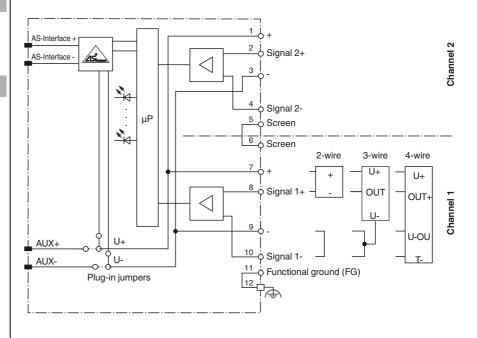
- Protection degree IP65
- Flat or round cable connection (via standardized EEMS base, not included with delivery)
- · Cable piercing method for flat cable
- · Function display for bus and inputs
- Supply of inputs external or from the module, as required

Dimensions

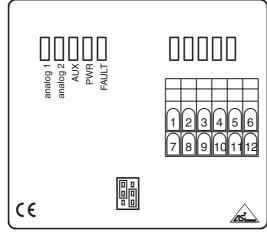




Electrical connection



Indicating / Operating means



Spring terminal block:

1: 24V ext. 7: 24V ext.

2: Sig.+ Ch. 2 2: Sig.+ Ch. 1

3: 0 V ext. 9: 0 V ext.

4: N.C. 10: N.C.

5: Shield 11: FG

6: Shield 12: FG

Plug-in jumper:



Power supply of outputs from the external auxiliary power



Power supply of outputs from the module (AS-Interface)

Technical data General specifications Standard slave Slave type AS-Interface specification V2.1 ≥ V2.1 Required master specification UL File Number E223772 Functional safety related parameters 160 a at 30 °C $MTTF_d$ Indicators/operating means LED FAULT error display; LED red red: communication error red flashing: peripheral error LED PWR AS-Interface voltage; LED green LED ANALOG status input signal; LED green off: not connected (peripheral error) green: $0 \text{ V} \leq U \leq 11.5 \text{ V}$ green flashing: U > 11.5 V (peripheral error) LED AUX ext. auxiliary voltage UAUX; LED green **Electrical specifications** U_{AUX} 24 V DC ± 15 % PELV Auxiliary voltage (output) Rated operating voltage $U_{\rm e}$ 26.5 ... 31.6 V from AS-Interface Rated operating current ≤ 80 mA Protection class Input Number/Type 2 analog inputs (voltage), 0 ... 10 V Supply from AS-Interface or from external auxiliary voltage as required U_{AUX} Current loading capacity ≤ 200 mA from AS-Interface ≤ 500 mA from external auxiliary voltage U_{AUX} Input resistance 100 kΩ Resolution 16 Bit / 1 mV **Programming instructions** Profile S-7.3.D IO code 7 ID code 3 D ID2 code The transfer of the data value is based on AS-Interface Profile Data bits (function via AS-Interface) Parameter bits (programmable via AS-i) mains power frequency filter P0=1, 50 Hz filter active P0=0, 60 Hz filter active projecting of the 2nd channel P1 P1=1, channel 2 is projected P1=0, channel 2 is not projected P2 Message of peripheral error P2=1, peripheral error is reported P2=0, peripheral error is not reported P3 not used **Ambient conditions** Ambient temperature 0 ... 70 °C (32 ... 158 °F) -25 ... 85 °C (-13 ... 185 °F) Storage temperature **Mechanical specifications** Protection degree IP65 cable piercing method or terminal compartment Connection yellow flat cable/black flat cable or standard round cable inputs/outputs: 2 x M16 x 1.5 cable glands and cage tension spring terminals, 1 x M12 x 1.5 cable gland (not used) Material Housing PA 6 GF30 Mass 350 g Mounting DIN mounting rail Compliance with standards and directives Standard conformity Protection degree EN 60529:2000

Notes

Do not connect inputs and outputs, which are supplied via the module from AS-interface or via auxiliary power, with power supply and signal circuits with external potentials.

Function

The VBA-2E-G4-U analogue module has two analogue voltage inputs 0 V... 10 V. The asynchronous transformation of measured values and the data transfer is accomplished in accordance with AS-Interface profile 7.3. The measured-value transmitter can be supplied from the AS-Interface or from the external auxiliary power via the black flat cable, depending on the wiring of the plug-in jumpers. The resolution of the analogue values is 16 bit. System disturbances are eliminated using a filter, programmable via P0 (50 Hz/60 Hz).

The IP65 rated G4 module is especially suitable for rough conditions. Connection to the measured-value transmitters is established by means of cable glands and cage tension spring terminals thus making the installation especially user-friendly. For pre-addressing the module, it can be plugged directly onto the adapter of the hand-held programming device VBP-HH1.

Both flat and round cables can be used for the connection of the AS-Interface transmission line and the external 24 V DC power supply. Use the U-G1FF base for the AS-Interface flat cable. The AS-Interface standardised EEMS interface, uses the cable piercing method to connect both the yellow and black flat cables.

Use the U-G1PP base for a round cable. The AS-Interface-cable as well as the external power supply may be connected within the U-G1PP base.

Accessories

VBP-HH1-V3.0-KIT

AS-Interface Handheld with accessory

VBP-HH1-V3.0

AS-Interface Handheld

VAZ-G4-B

Blind plug PG7

VAZ-G4-B1

Blind plug M12

Matching system components

AS-Interface module mounting base for connection to flat cable (AS-Interface and external auxiliary power)

AS-Interface module mounting base with adressing jack for connection to flat cable (AS-Interface and external auxiliary power)

U-G1PP

AS-Interface module mounting base for connection to round cable (AS-Interface and external auxiliary power)

