

Product sheet

CPM

Communication Platform

FEATURES

- Local display and console for basic configuration and operation of the transmitter
- Connection point between the transmitter and the DCS (Distributed Control System)
- Protected from splash and sun
- CCM-8200 for bCONNECT functionality

BENEFITS

- Large illuminated display for easy reading
- Provides full setting of the transmitter
- Device Description (DD) and DTM enables communication with Universal HART® handheld terminals and/or general PC-based software
- Easy connection to cloud services

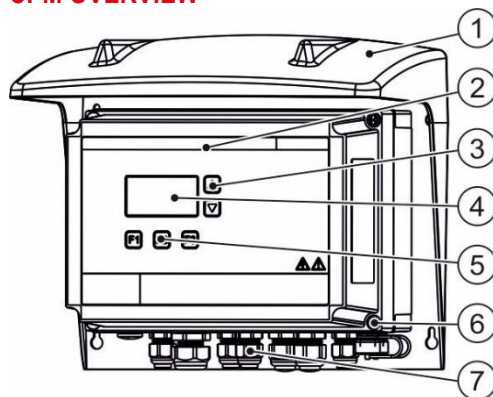


GENERAL / BACKGROUND

The CPM Communication Platform is delivered as a complete unit from BTG, normally in conjunction with a transmitter.

The CPM ensures capability with present and future communication interface requirements, from analogue output with HART® to field buses and cloud connectivity.

CPM OVERVIEW



1. Protective cover
2. Front cover
3. Scroll keys
4. LCD display with backlight
5. Function keys
6. Closing screw
7. Cable glands

Figure 1: CPM overview



Use QR-code or link for more information
www.btg.com/mybtg/en/instruments/cpm

TECHNICAL DATA / SPECIFICATIONS

GENERAL

Type	CPM, Communication Platform
Manufacturer	BTG Instruments AB, Säffle Sweden
Quality Assurance	Quality-assured in accordance with ISO 9001.
Product Safety	Fulfills all relevant CE-directive requirements, RCM requirements, and ETL listed.
Radio Approvals Emission / Immunity / Safety	US, Canada, EU, Japan, Australia, and New Zealand. FCC Part 15 Class B EN 61010-1:2010 EN 61326-1:2013 EN 301489-1 V2.1.1 EN 301489-17 V3.1.1 EN 300328 V2.1.1 EN 300893 V1.8.1 UL 61010-1:2012 Ed.3 +R:29Apr2016 CSA C22.2#61010-1-12:2012 Ed.3+U1;U2

FUNCTION SPECIFICATIONS

HART® communication HCM-8000

Hart communication module using HART® protocol. Equipped with slot for SD memory card.

Analog output (AO1)	4 - 20 mA. Galvanic isolated. Current limited to min. 3.9 and max. 20.5 mA. Loop load signal: Voltage supply/load 24 V DC Active or passive output Superimposed signal over 4 - 20 mA current loop according to standard HART® protocol.
Analog input (AI1)	4 - 20 mA 250 Ω input resistance
Digital input (DI1 – DI3)	Galvanic isolated High-ohmic = logical 0 +24 V ≥ 12 mA = logical 1
Digital output (DO)	Galvanic isolated Maximum 120 mA Maximum 30 V DC

HART® communication HCM-8010

Hart communication module using HART® protocol. Equipped with slot for SD memory card.

Analog output (AO1 – AO5)	4 - 20 mA. Galvanic isolated. Current limited to min. 3.9 and max. 20.5 mA. Loop load signal: Voltage supply/load 24 V DC Active output Superimposed signal over 4 - 20 mA current loop according to standard HART® protocol (only AO1).
Analog input (AI1 – AI4)	4 - 20 mA 250 Ω input resistance
Digital input (DI1 – DI4)	Galvanic isolated High-ohmic = logical 0 +24 V ≥ 12 mA = logical 1
Digital output (DO1 – DO2)	Galvanic isolated Maximum 120 mA Maximum 30 V DC
Solenoid valve (SV1 – SV5)	Open drain output for solenoids Maximum 500 mA Maximum 30 V DC

Fieldbus communication FCM-80x0

Fieldbus communication module programmed for PROFIBUS. Equipped with slot for SD memory card.

Output/Input signal	PROFIBUS (PA)
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Communication module CCM-8200

Network Interfaces:

Wired Network Connectivity	Ethernet, 10/100 Mbit - RJ45. Ethernet interface supporting up to 100baseTx. The interface supports Auto MDI-X (crossover).
Wireless Network Connectivity	Wi-Fi, Dual-band 802.11 a/b/g/n/ac 1x1

CPM User Interface

Illuminated display. Keypad for adjustment of instrument settings.

SUPPORT SYSTEM SPECIFICATIONS

Supply Voltage	Power supply unit 100-240 V AC, 50-60 Hz. AC input range: 90-264 V continuous operation.
Disconnecting Device	An external 2-pole switch close to the CPM is required. The switch must be approved in accordance with the IEC 60947-2 and IEC 60947-3 requirements.
Power Consumption	100 – 300 VA
Altitude	0 to 2000 m (0-6560ft) without any restrictions. 2000 to 6000 m (6560 to 20000ft) reduce output power or ambient temperature. Altitude de-rating = 5 W / 1000 m or 5 °C / 1000 m.
Humidity	5 to 95% r.h (IEC 60068-2-30)
Over-voltage Category	Category III: IEC 62103, EN 50178, altitudes up to 2000 m Category II: altitudes from 2000 m to 6000 m
Degree of Pollution	2: IEC 62103, EN 50178, not conductive

PHYSICAL SPECIFICATIONS

Materials:	
Casing	Polycarbonate thermo plastic
Cable fittings	Polyamide thermo plastic
Storage Temperature	
	Max. 80 °C [176 °F] Min. -25 °C [-13 °F]
Operation Temperature	
	Max. 50 °C [122 °F] Min. 0 °C [32 °F]
Degree of Protection	
	IP 65, comparable to NEMA 4x and better, the CPM is intended for use indoors.
Weight	
	2 - 2.5 kg [4.4 - 5.5 lbs] depending on configuration
Cables:	
Power supply cable	Flexible 0.3 - 2.5 mm ² [AWG = 28-12]
Signal cable	0.2 - 2.5 mm ² [AWG = 24-12]
Transmitter Cable	
	Standard length 10 m
Cable Inlets	
	There are cable glands for signaling cables (diameter 5-10 mm), for ethernet cable (diameter 3-8 mm), and for power supply cable (diameter 8-13 mm) in the bottom of the CPM.

YOUR LOCAL BTG OFFICE



Use QR-code or link for more information
www.btg.com/en/contact/sales-service-network

DIMENSION DRAWINGS

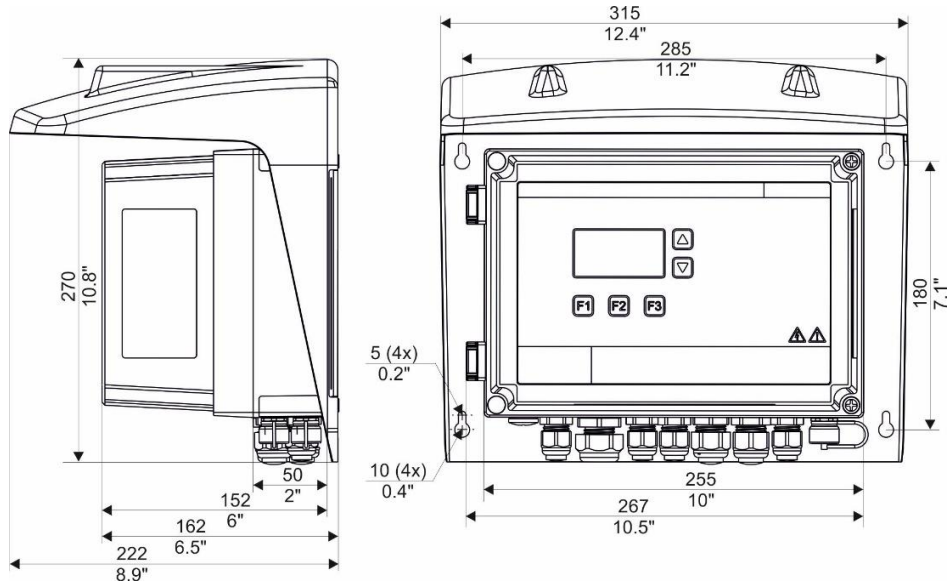


Figure 2: CPM Dimensions

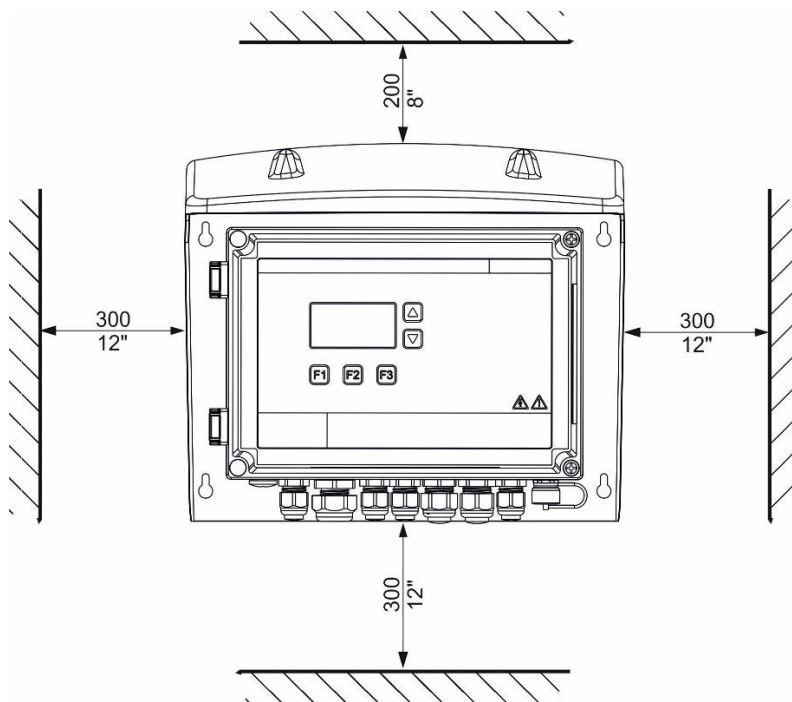


Figure 3: CPM Recommended clearance