

Rosemount[™] 1066

Single Channel Transmitter



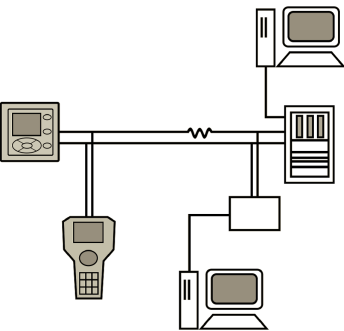
Loop powered transmitter for liquid analysis

The Rosemount 1066 Single Channel Transmitter can display:

- Liquid analytical measurement
- Temperature measurement
- Current output
- Diagnostic information

The transmitter has quick start programming for shorter installation times and an intuitive user interface for easy operation.

Overview



Loop powered single channel transmitter

- Transmits analytical measurements:
 - pH/ORP
 - Conductivity
 - Free chlorine
 - Total chlorine
 - Dissolved oxygen
 - Ozone
- Large, easy to read, and user-customizable screen that displays:
 - Analytical measurements
 - Temperature
 - Diagnostics

Reduced installation and maintenance time

- Shorter installation times using Quick Start programming at initial install or after factory reset.
- Effortlessly connect with PLCs and DCSes by choosing the HART® or Profibus® DP communication options.
- Display measurements, configure alarms, and conduct maintenance with an easy to use local operator interface.
- Efficiently manage your devices using intuitive device dashboards on AMS Field Communicators.

Accurate, linear, and reliable measurements of analytical sensors

- Faster calibration of pH sensors using auto pH buffer solution detection.
- Linear conductivity measurements with on-board concentration curves for common acids and bases.
- Built-in features to easily display amperometric measurements.

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Ordering information



The Rosemount 1066 Single Channel Transmitter is a loop powered device that can accept input from pH/ORP sensors, conductivity (contacting and toroidal) sensors, and amperometric (dissolved oxygen, chlorine, and ozone) sensors.

- Faster installation time using Quick Start programming.
- Intrinsically safe FM, CSA, and ATEX/IECEx hazardous location approvals.
- View process parameters using HART® communication.

[CONFIGURE >](#)
[VIEW PRODUCT >](#)

Model

Code	Description
1066	Single channel transmitter

Measurement

Code	Description
P	pH/ORP
C	Contacting conductivity
T	Toroidal conductivity
CL	Chlorine
DO	Dissolved oxygen
OZ	Ozone

Communication

Code	Description
HT	HART® digital communication

Approvals

Code	Description
60	None required
67	FM approved, intrinsically safe

Code	Description
69	CSA/CUS approved, intrinsically safe
73	ATEX/IECEx approved, intrinsically safe

Specifications

Enclosure

Material	Polycarbonate
Rating	Type 4X and IP65
Dimensions	Length x width x height: 6.10 x 6.10 x 5.45-in. (155 x 155 x 138 mm)
Conduit openings	½-in. or PG 13.5 conduit fittings

Display

Features	User-customizable, monochromatic graphic liquid crystal, no backlight
Display resolution	128 x 95 pixel display resolution
Dimensions	3.8-in. (96.5 mm) - diagonal

Ambient conditions

Temperature	-14 to +131 °F (-10 to +55 °C)
Relative humidity	5 to 95 percent (non-condensing)

Power

Minimum voltage	12.7 Vdc
External load resistor for HART®	250 Ohms

Terminal wire sizes

Power	26 to 16 AWG
Sensor inputs	26 to 16 AWG

Weight/shipping weight

(Rounded to nearest 1 lb. or 0.5 kg)

2 lb./3 lb. (1 kg/1.5 kg)

Electronic Calibration Certificate (Q2)

Includes electronic calibration data over customer-specified measurement ranges, as well as model configuration(s), serial number(s), tag number(s), and NIST report number(s), if applicable.

Loop Calibration Certificate

Includes calibration data (using the transmitter comprised in the loop) over customer-specified measurement ranges, as well as model configuration(s), serial number(s), tag number(s), and NIST report number(s) if applicable.

Product certifications

Refer to the [Rosemount™ 1066 Single Channel Transmitter Quick Start Guide](#) for product certification information.

Dimensional drawings

Panel mount dimensions

Figure 1: Front View

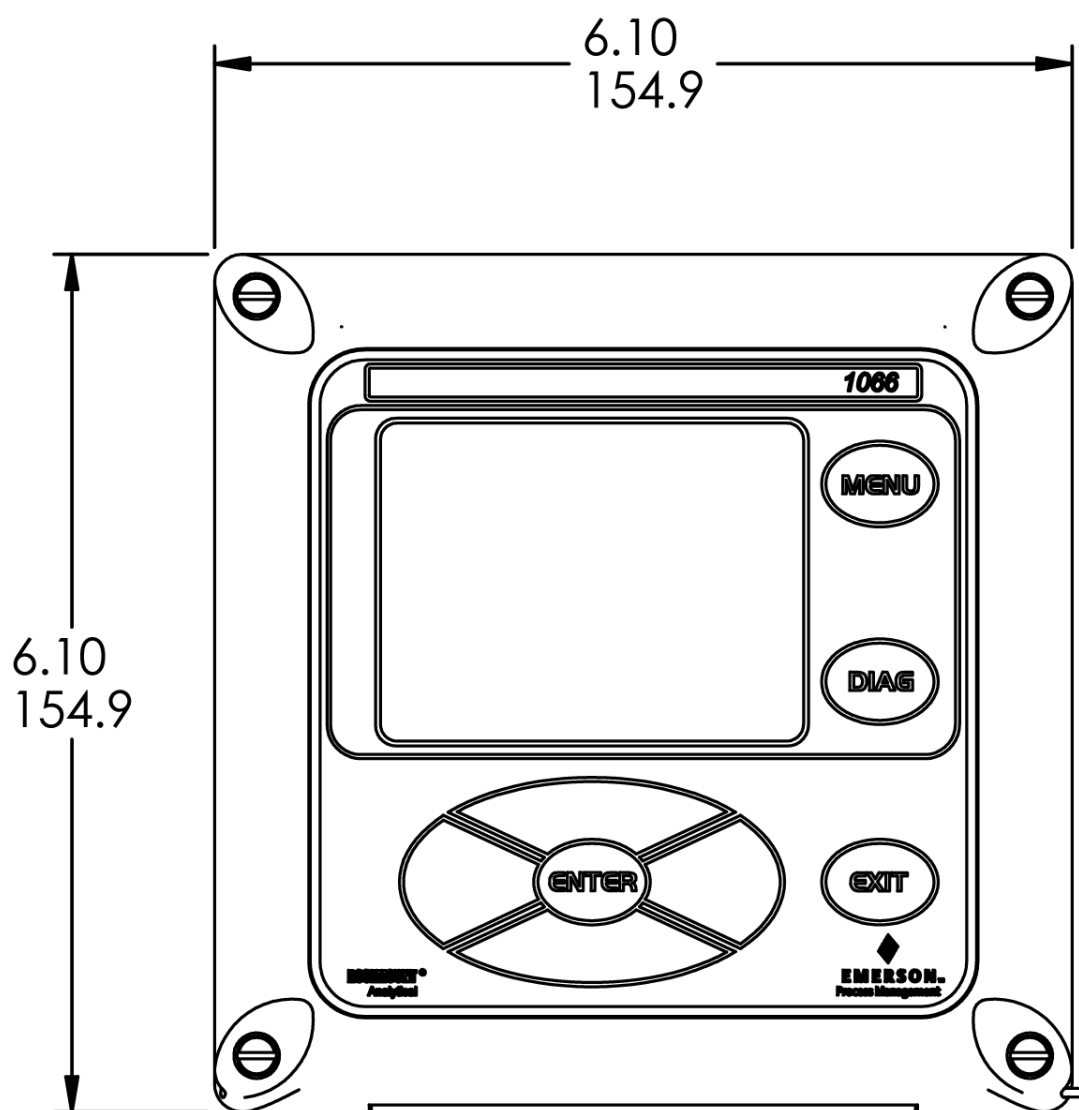
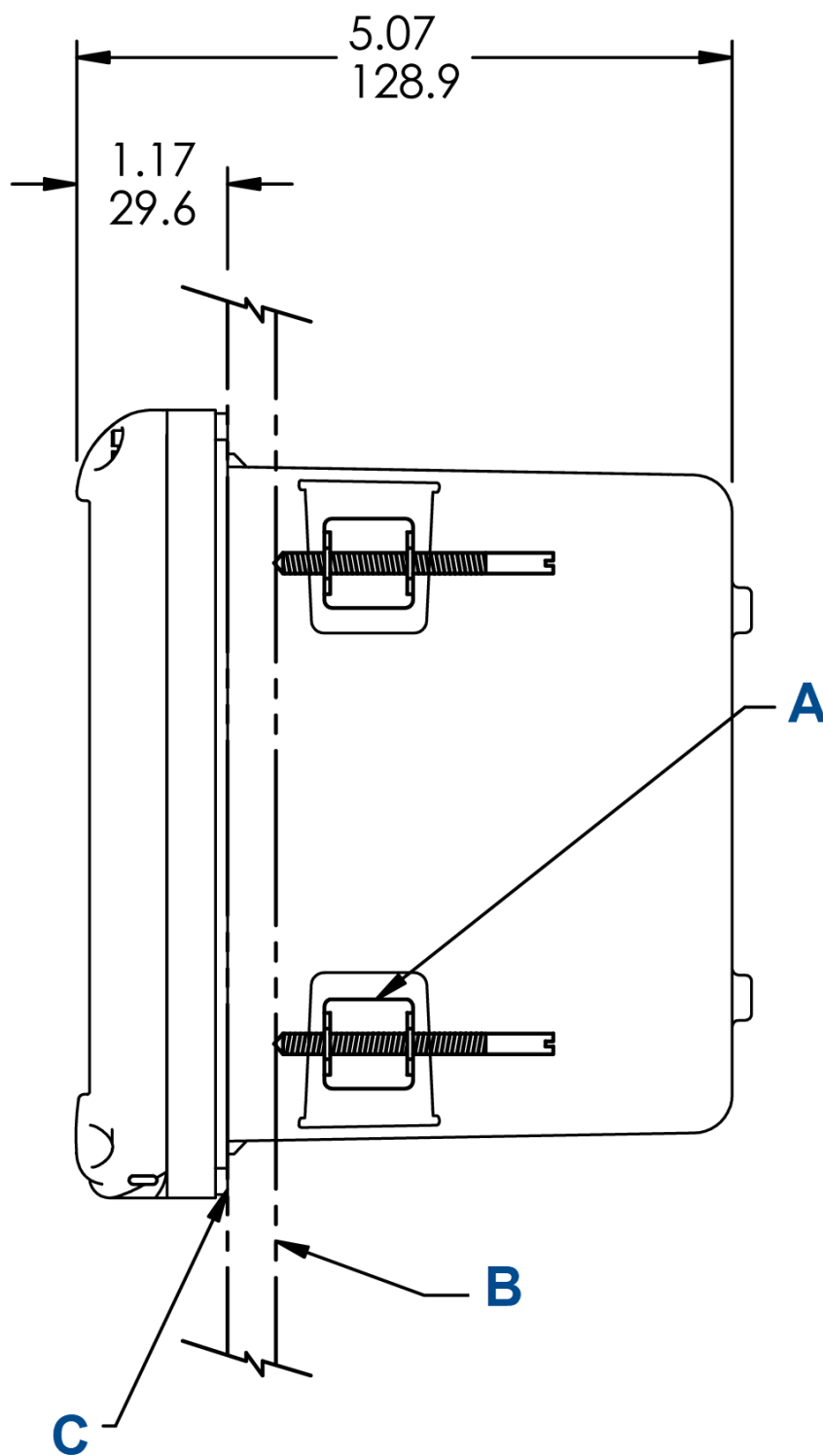
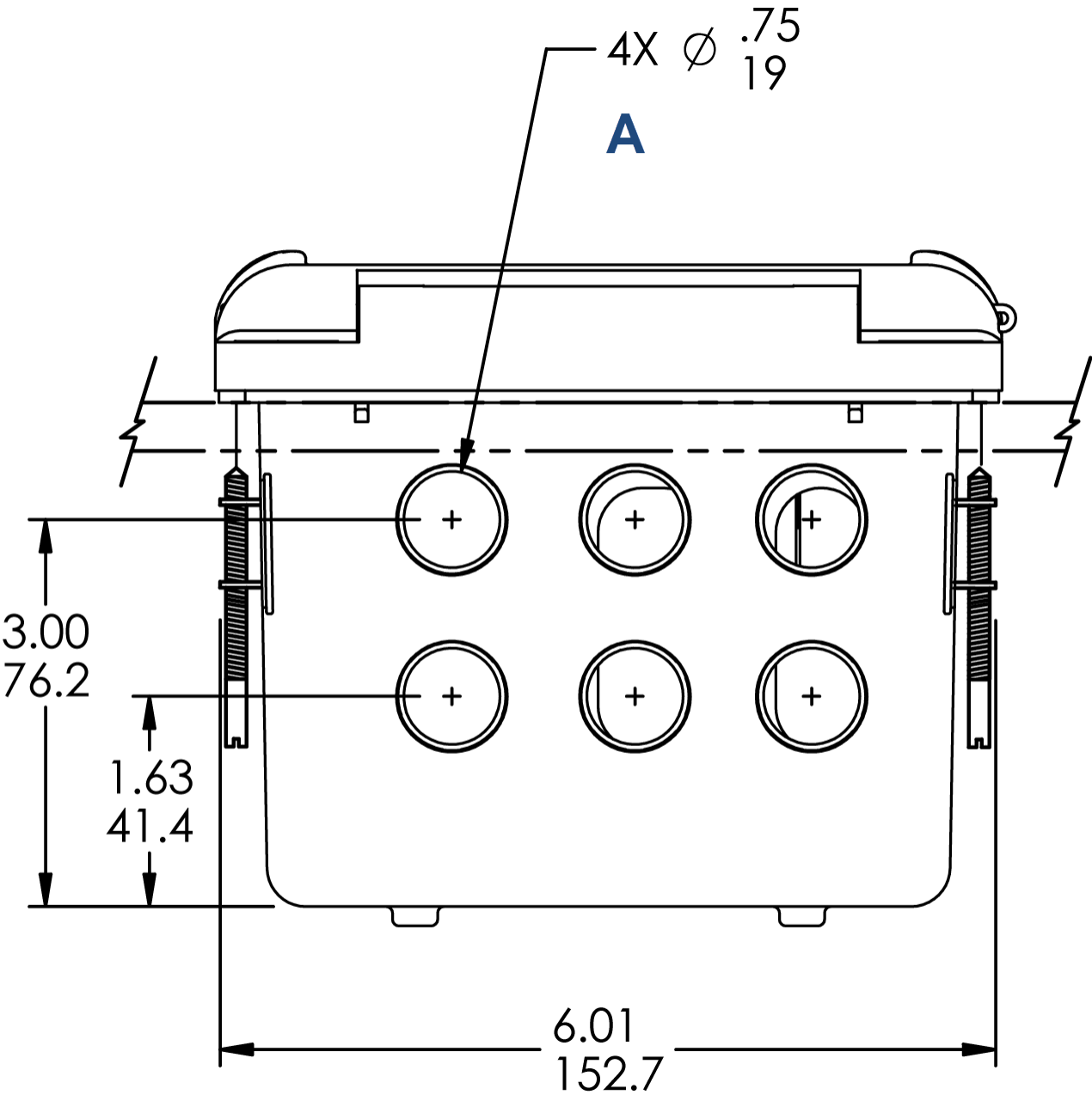


Figure 2: Side View



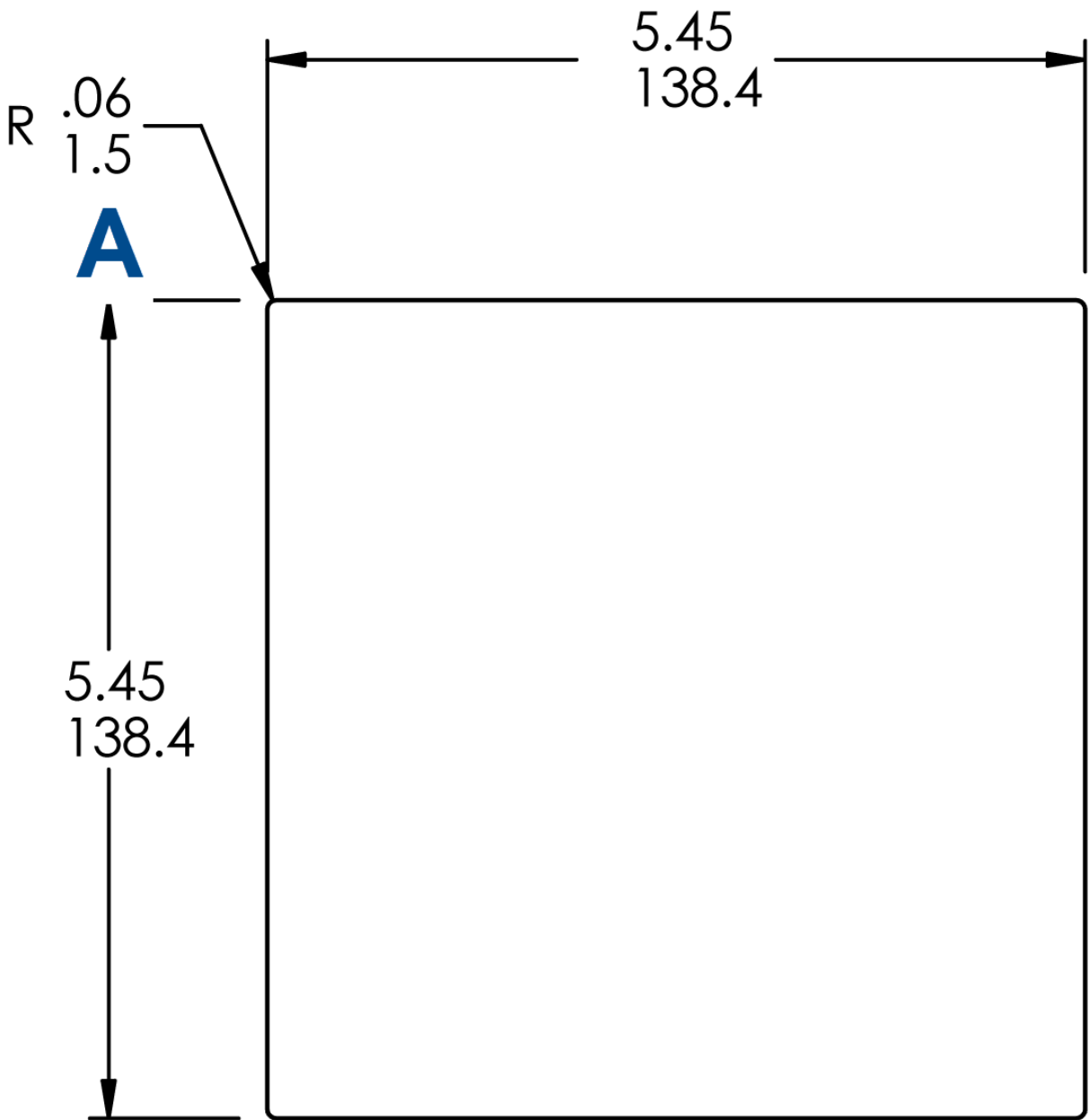
- A. Four mounting brackets and screws provided with instrument
- B. Panel supplied by others. Maximum thickness: 0.375-in. (9.52 mm)
- C. Panel mount gasket

Figure 3: Bottom View



A. Conduit openings

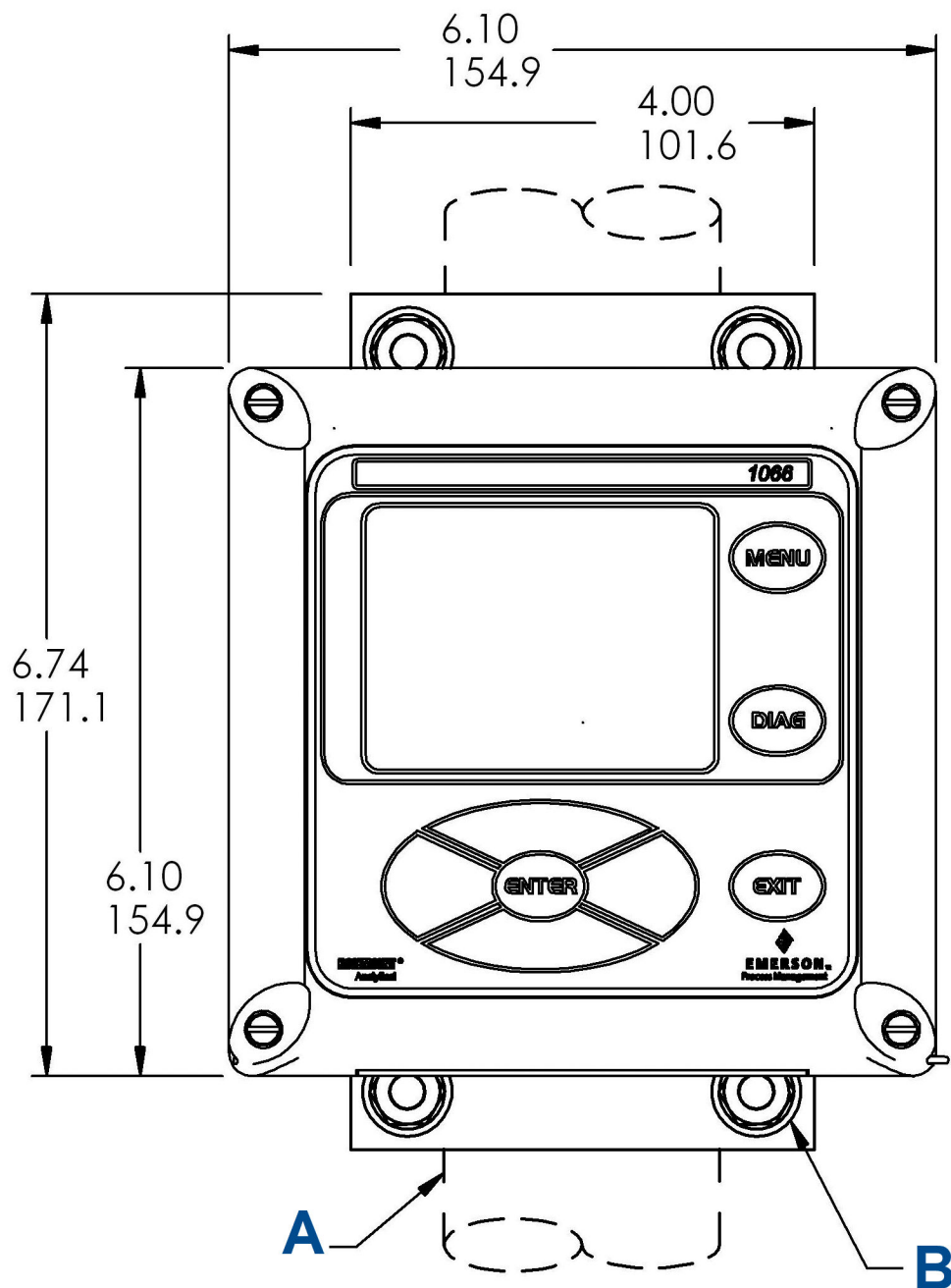
Figure 4: Panel Cut-Out



A. Maximum

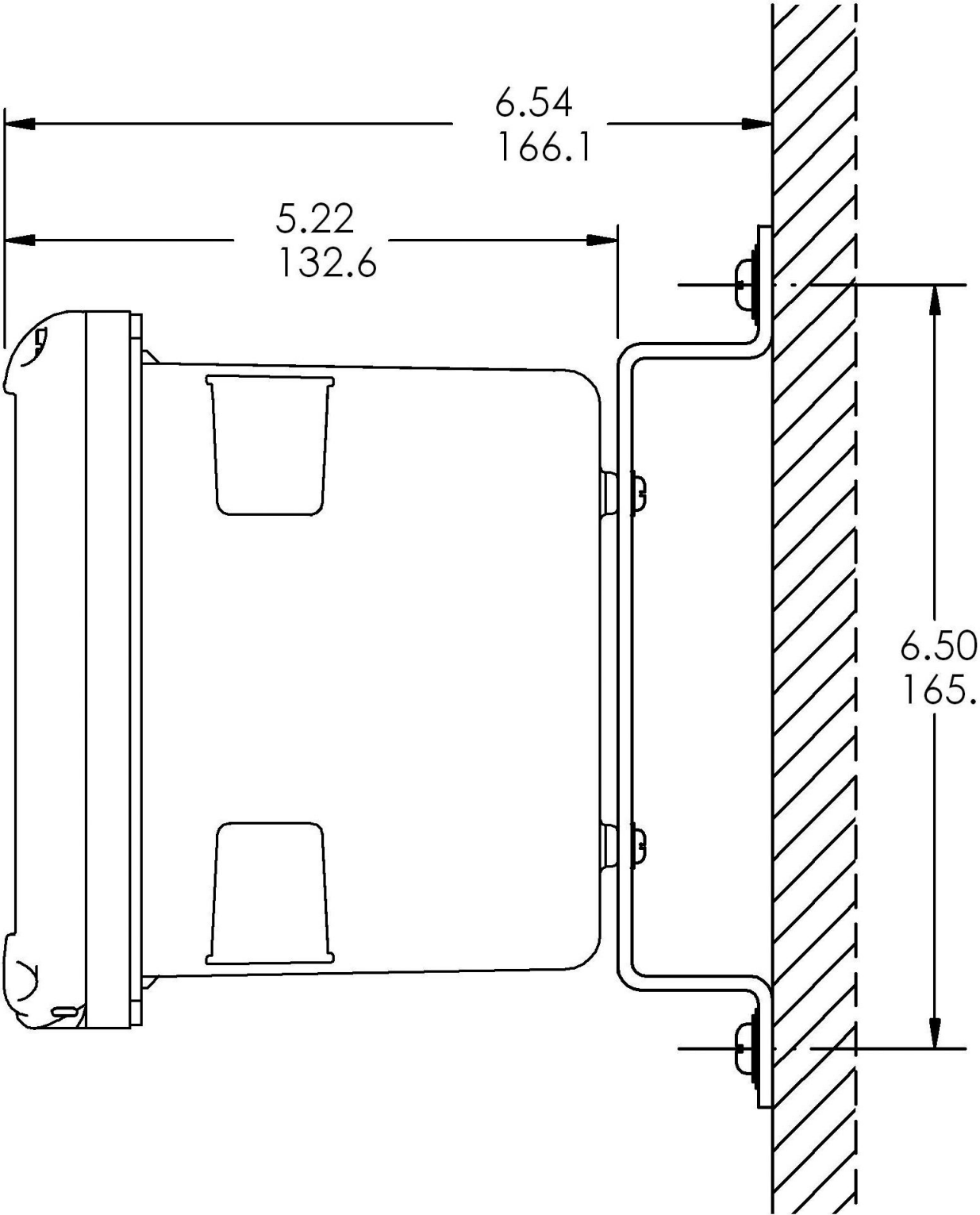
Wall/surface mount

Figure 5: Front View



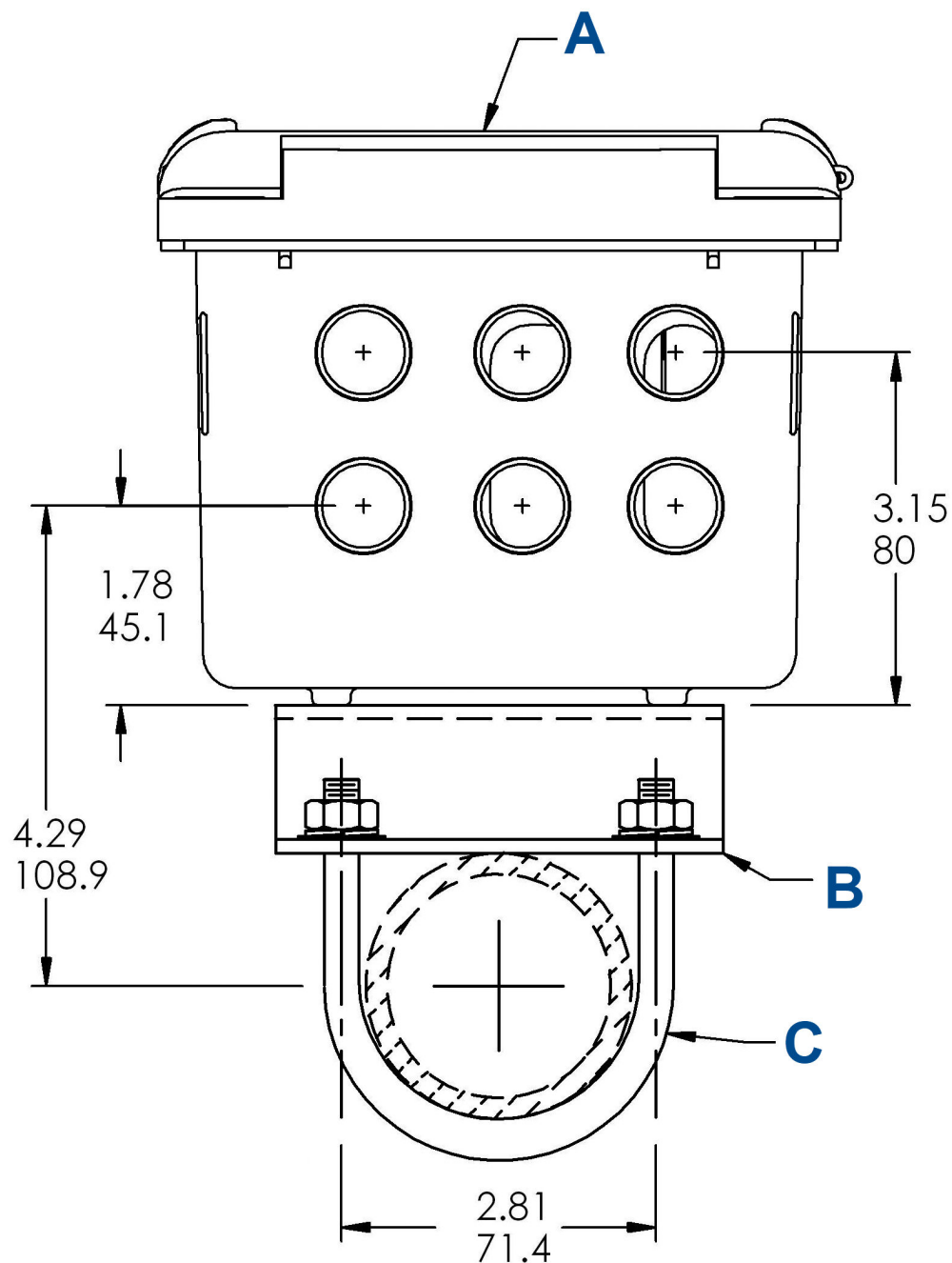
- A. 2-in. (50.8 mm) pipe supplied by customer
- B. Four cover screws

Figure 6: Side View



Pipe mount

Figure 7: Bottom View

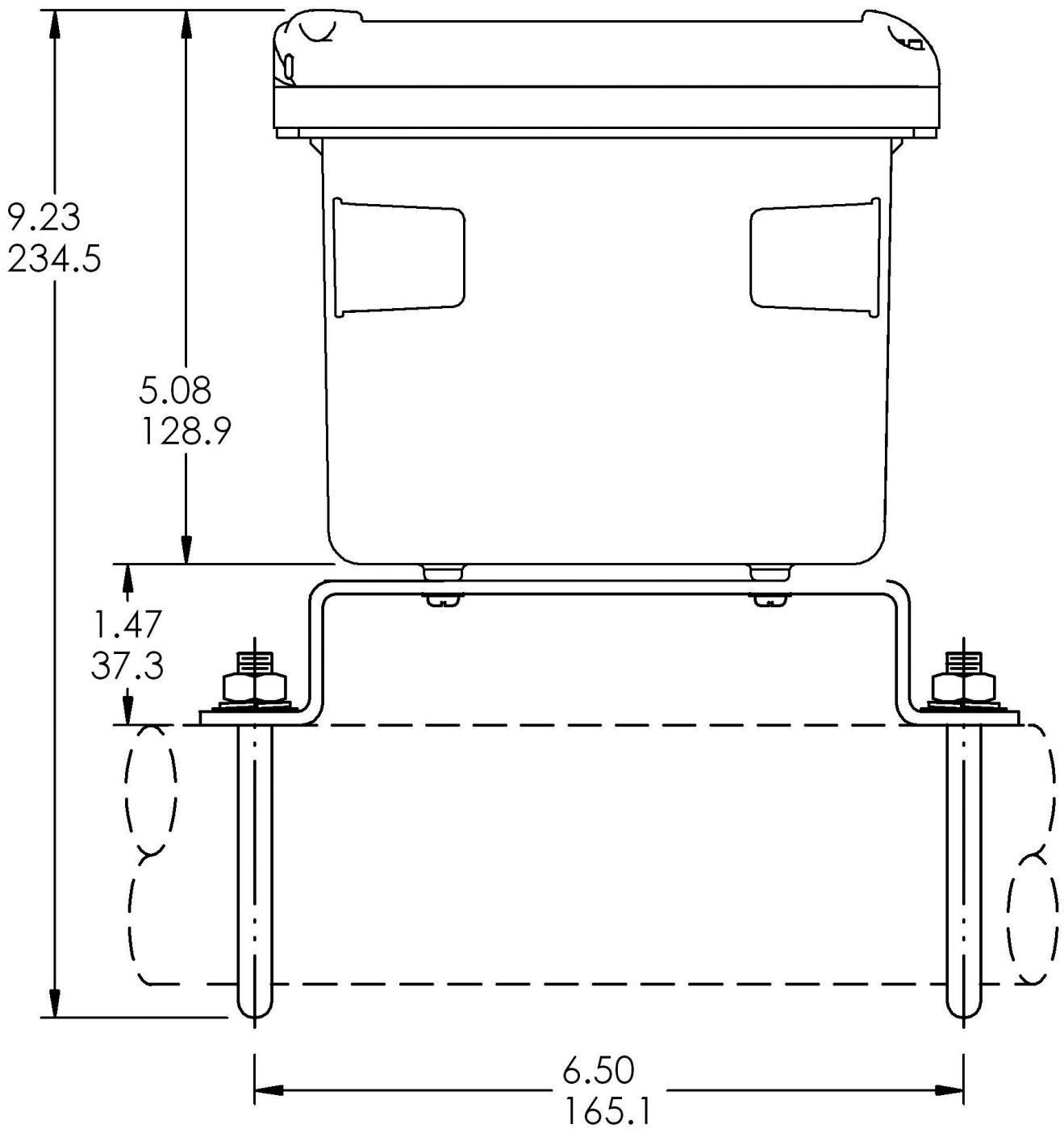


A. Front panel

B. 2-in. (50.8 mm) pipe mount bracket

C. Two set u-bolts for 2-in. (50.8 mm) pipe in kit PN 23820-00

Figure 8: Side View



Accessories

Part number	Description
23554-00	Cable gland kit (quantity: 5)
23820-00	2-in. (50.8 mm) pipe mounting kit which includes: ■ U-bolts ■ Mounting bracket ■ Nuts ■ Washers ■ Screws
23820-01	2-in. (50.8 mm) stainless steel pipe mounting kit which includes: ■ U-bolts ■ Mounting bracket ■ Nuts ■ Washers ■ Screws
9240048-00	Stainless steel tag (customer-specified marking)

For more information: [Emerson.com/global](https://emerson.com/global)

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