PFXGP4601TAA

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Pro-face Xycom GP4000

PFXGP4601TAA

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See Also:

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Specifications of Serial Interface COM1

Introduction

NOTE: For instructions on how to connect to other devices, always refer to the "GP-Pro EX Device/PLC Connection Manual".

The serial port is not isolated. The SG (signal ground) and FG (frame ground) terminals are connected inside the GP unit.
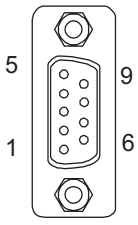

⚠️⚠️ DANGER

ELECTRIC SHOCK

When using the SG terminal to connect an external device to the panel:
- Verify that a short-circuit loop is not created when you set up the system.
- Connect the #5 SG terminal to remote equipment when the host (PLC) unit is not isolated. Connect the #5 SG terminal to a known reliable ground connection to reduce the risk of damaging the circuit.

Failure to follow these instructions will result in death or serious injury.

Serial Interface COM1

GP-4501T / GP-4501TW / GP-4503T: D-Sub 9 pin plug connector via an RS-232C cable.

Pin Connection	Pin No.	RS-232C		
		Signal Name	**Direction**	**Meaning**
	1	CD	Input	Carrier Detect
	2	RD(RXD)	Input	Receive Data
5 9	3	SD(TXD)	Output	Send Data
	4	ER(DTR)	Output	Data Terminal Ready
1 6	5	SG	-	Signal Ground
	6	DR(DSR)	Input	Data Set Ready
	7	RS(RTS)	Output	Request to Send
	8	CS(CTS)	Input	Send possible
(GP unit side)	9	CI(RI)/VCC	Input/–	Called Status Display +5V±5% Output 0.25A[1]
	Shell	FG	–	Frame Ground (Common with SG)

NOTE: [1] You can switch pin #9 between RI and VCC via software.

NOTICE

EQUIPMENT DAMAGE

Use only the rated current.

Failure to follow these instructions can result in equipment damage.

Interfit bracket is #4-40 (UNC).

Recommendations:
- Cable Connector: XM2D-0901 manufactured by OMRON Corporation.
- Cable Cover: XM2S-0913 manufactured by OMRON Corporation.
- Jack Screw (#4-40 UNC): XM2Z-0073 manufactured by OMRON Corporation.

⚠ CAUTION

LOSS OF COMMUNICATION

- All connections to the communication ports must not put excessive stress on the ports.
- Securely attach communication cables to the panel wall or cabinet.
- Use only D-Sub 9 pin cables with a locking tab in good condition.

Failure to follow these instructions can result in injury or equipment damage.

Specifications of Serial Interface COM2

Introduction

NOTE: For instructions on how to connect to other devices, always refer to the "GP-Pro EX Device/PLC Connection Manual".

The COM2 ports of GP-4501T and GP-4501TW are not isolated. The SG (signal ground) and FG (frame ground) terminals are connected inside the GP unit.
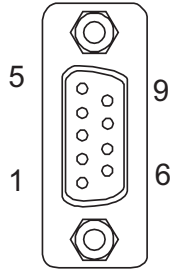

⚠⚠ DANGER

ELECTRIC SHOCK

When using the SG terminal to connect an external device to the panel:
- Verify that a short-circuit loop is not created when you set up the system.
- Connect the #5 SG terminal to remote equipment when the host (PLC) unit is not isolated. Connect the #5 SG terminal to a known reliable ground connection to reduce the risk of damaging the circuit.

Failure to follow these instructions will result in death or serious injury.

Serial Interface COM2

GP-4501T / GP-4501TW: D-Sub 9 pin plug connector via an RS-422/485 cable.

Pin Connection	Pin No.	RS-422/RS-485		
		Signal Name	**Direction**	**Meaning**
	1	RDA	Input	Receive Data A (+)
	2	RDB	Input	Receive Data B (-)
	3	SDA	Output	Send Data A (+)
(GP unit side)	4	ERA	Output	Data Terminal Ready A (+)
	5	SG	-	Signal Ground
	6	CSB	Input	Send Possible B (-)
	7	SDB	Output	Send Data B (-)
	8	CSA	Input	Send Possible A (+)
	9	ERB	Output	Data Terminal Ready B (-)
	Shell	FG	–	Frame Ground (Common with SG)

Interfit bracket is #4-40 (UNC).

Recommendations:
- Cable Connector: XM2D-0901 manufactured by OMRON Corporation.
- Cable Cover: XM2S-0913 manufactured by OMRON Corporation.
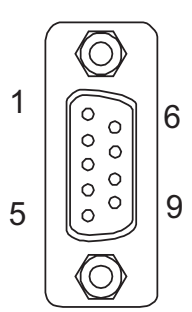- Jack Screw (#4-40 UNC): XM2Z-0073 manufactured by OMRON Corporation.

⚠ CAUTION

LOSS OF COMMUNICATION

- All connections to the communication ports must not put excessive stress on the ports.
- Securely attach communication cables to the panel wall or cabinet.
- Use only D-Sub 9 pin cables with a locking tab in good condition.

Failure to follow these instructions can result in injury or equipment damage.

GP-4503T: D-Sub 9 pin socket connector via an RS-485, PROFIBUS, or MPI cable.

Pin Connection	Pin No.	RS-485 (isolation)		
		Signal Name	Direction	Meaning
(GP unit side)	1	NC	-	no connection
	2	NC	-	no connection
	3	Line A	Input/Output	Data A (+)
	4	RS(RTS)	Output	Request to Send
	5	SG	-	Signal Ground
	6	VCC	-	+5V±5% External Output[1]
	7	NC	-	no connection
	8	Line B	Input/Output	Data B (-)
	9	NC	-	no connection
	Shell	FG	–	Frame Ground[2] (Not connected with SG)

NOTE: [1] You can supply power to the Siemens PROFIBUS connector only. You cannot supply power to the device/PLC.

[2] The SG and FG terminals are isolated.

Interfit bracket is #4-40 (UNC).

Recommendations:
- Cable Connector: XM2A-0901 manufactured by OMRON Corporation.
- Cable Cover: XM2S-0913 manufactured by OMRON Corporation.
- Jack Screw (#4-40 UNC): XM2Z-0073 manufactured by OMRON Corporation.

⚠ CAUTION

LOSS OF COMMUNICATION

- All connections to the communication ports must not put excessive stress on the ports.
- Securely attach communication cables to the panel wall or cabinet.
- Use only D-Sub 9 pin cables with a locking tab in good condition.

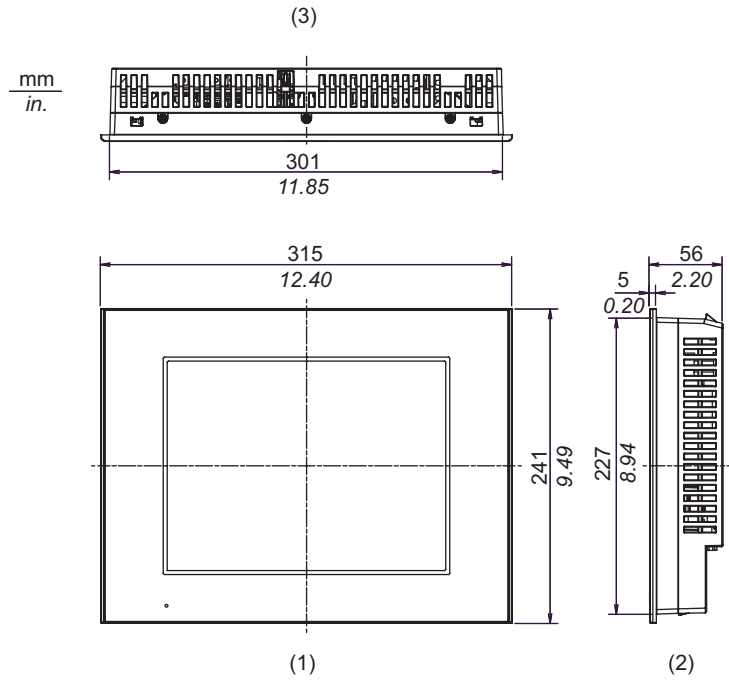**Failure to follow these instructions can result in injury or equipment damage.**

Dimensions

NOTE:
● If you are using the rear mount model, refer to Dimensions *(see page 184)*.

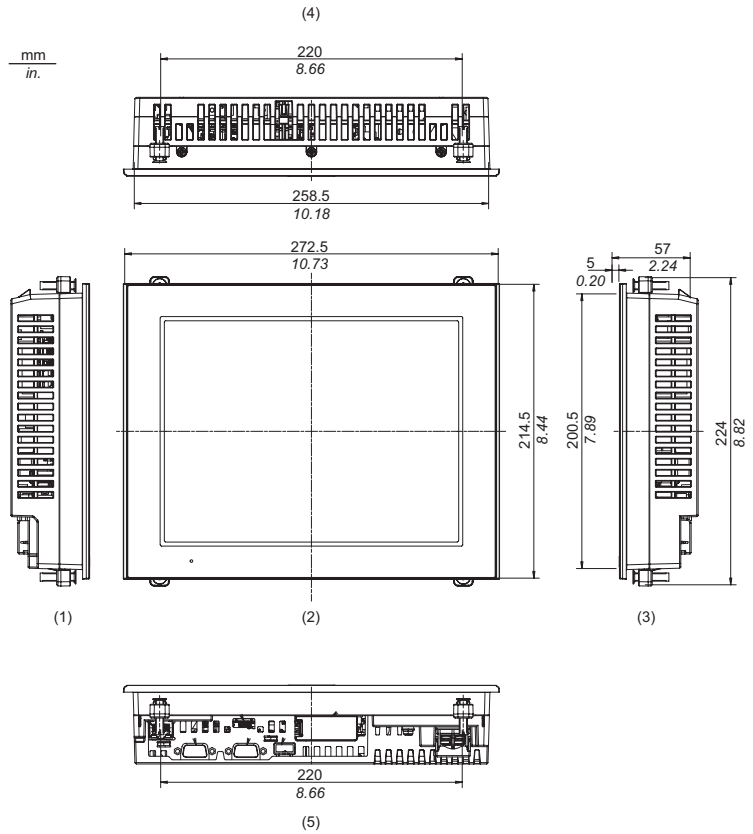**External Dimensions: GP-4501T / GP-4503T**
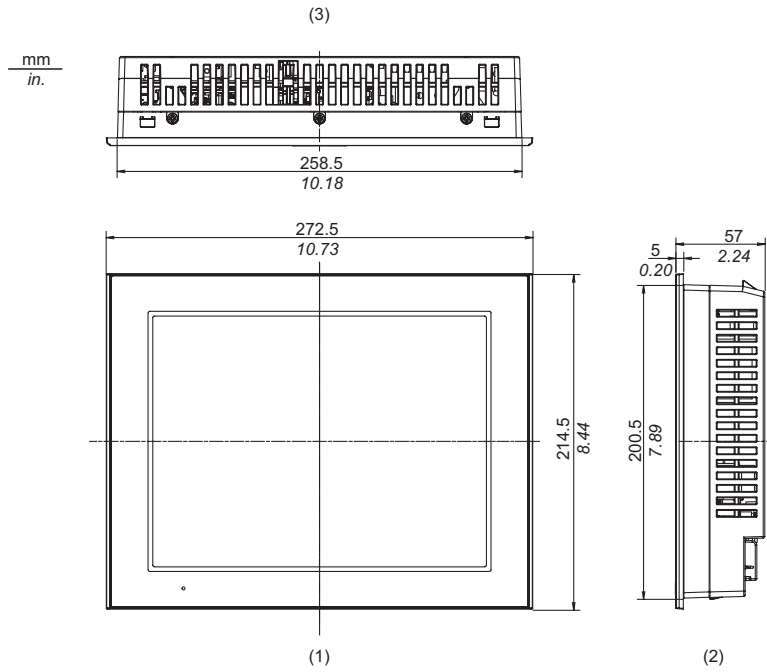
1 Front
2 Right Side
3 Top

External Dimensions: GP-4501TW

$\dfrac{mm}{in.}$

(3)

301
11.85

315
12.40

56
2.20

5
0.20

241
9.49

227
8.94

(1)

(2)

1 Front
2 Right Side
3 Top

Installation with Installation Fasteners: GP-4501T / GP-4503T

mm
_in._

(4)

220
_8.66_

258.5
_10.18_

272.5
_10.73_

5
_0.20_

57
_2.24_

214.5
_8.44_

200.5
_7.89_

224
_8.82_

(1)

(2)

(3)

220
_8.66_

(5)

1 Left Side
2 Front
3 Right Side
4 Top
5 Bottom

Installation with Installation Fasteners: GP-4501TW

mm
_in._

(4)

260
_10.24_

301
_11.85_

315
_12.40_

241
_9.49_

56
_2.20_

5
_0.20_

227
_8.94_

251
_9.88_

(1)

(2)

(3)

260
_10.24_

(5)
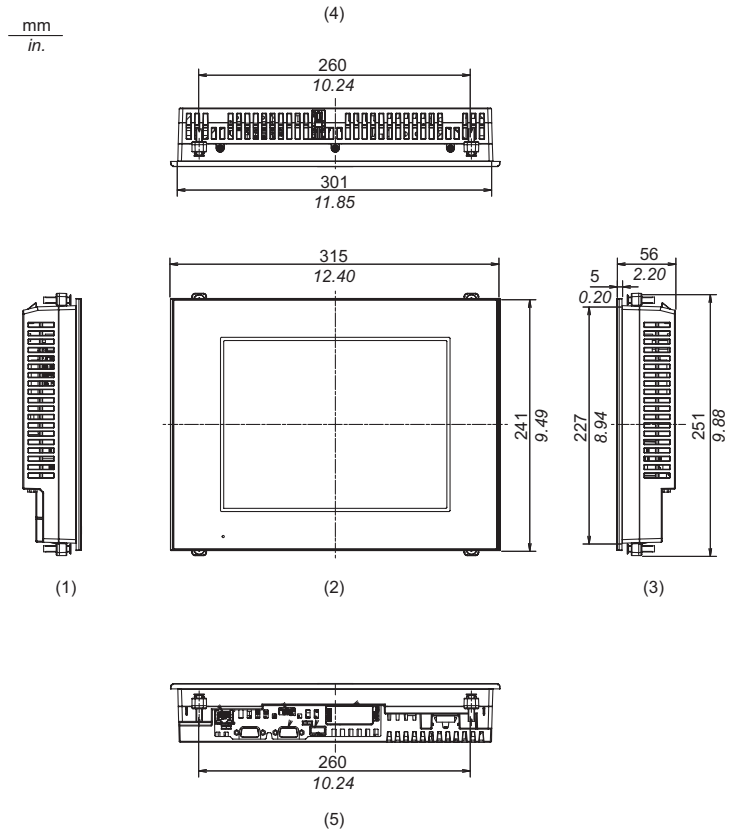
1	Left Side
2	Front
3	Right Side
4	Top
5	Bottom

Dimensions with Cables: GP-4501T
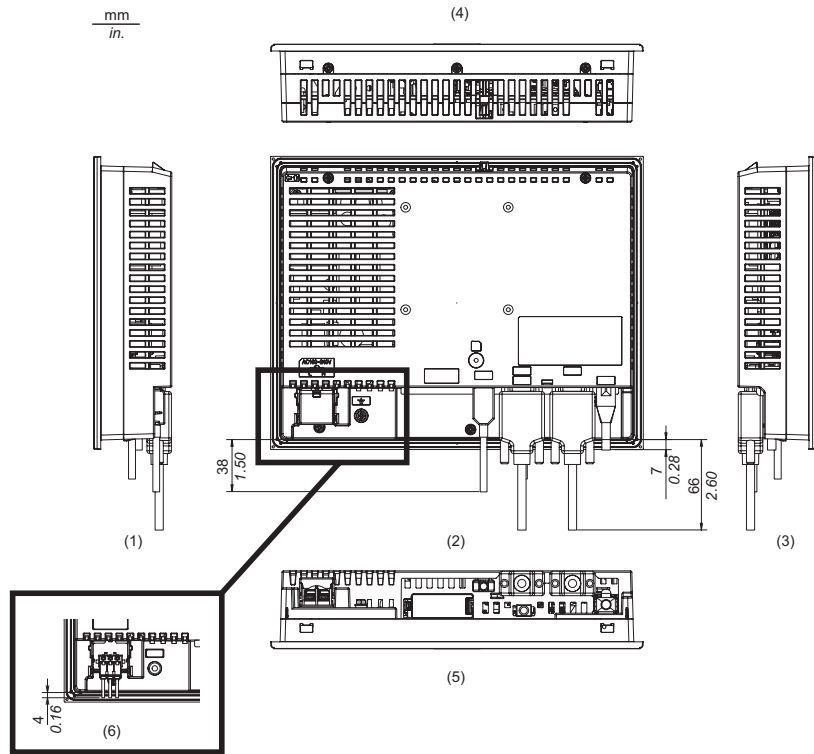
1 Left Side
2 Rear
3 Right Side
4 Top
5 Bottom
6 DC type units have power supply terminals

NOTE: All the above values are designed with cable bending in mind. The dimensions given here are representative values depending on the type of connection cable in use. Therefore, these values are intended for reference only.

Dimensions with Cables: GP-4501TW

mm
_in._

(4)

(1)

(2)

(3)

25
0.98

53
2.09

15
0.59

(5)

1 Left Side
2 Rear
3 Right Side
4 Top
5 Bottom

NOTE: All the above values are designed with cable bending in mind. The dimensions given here are representative values depending on the type of connection cable in use. Therefore, these values are intended for reference only.
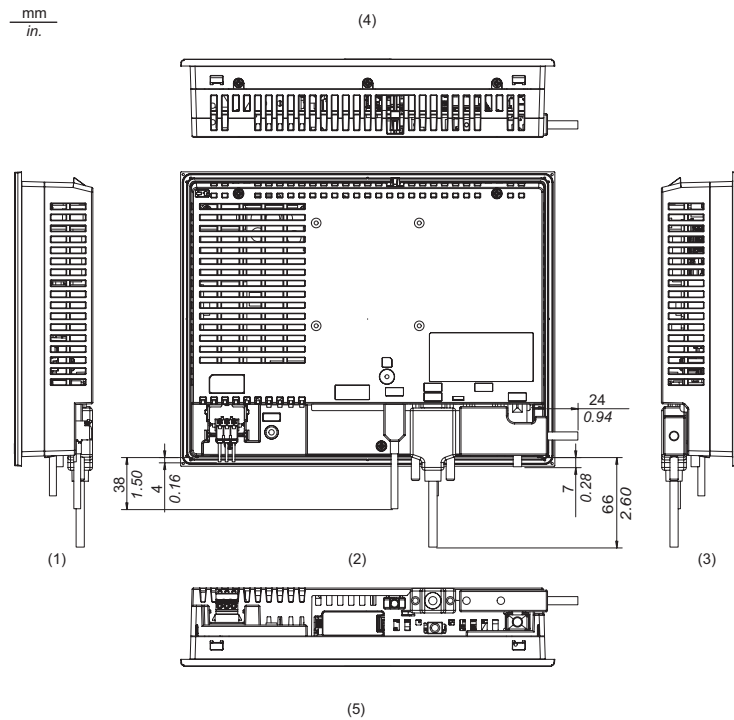
Dimensions with Cables: GP-4503T

mm
_in._

(4)

(1)

(2)

(3)

38
1.50

4
0.16

24
0.94

7
0.28

66
2.60

(5)

1 Left Side
2 Rear
3 Right Side
4 Top
5 Bottom

NOTE: All the above values are designed with cable bending in mind. The dimensions given here are representative values depending on the type of connection cable in use. Therefore, these values are intended for reference only.