
ABB MEASUREMENT & ANALYTICS | DATA SHEET

DISP-PAXDP

Dual input display



Measurement made easy

Dual independent process input meter

A math function can be performed on both signals. Any of the 3 meter values can have alarms, analog output or comms by adding optional card.

Intuitive and easy programming (high flexibility)

16 points scaling for linearization

Programmable function keys / user inputs

Variable intensity display

Options

- 4 (0) to 20 mA or 0 to 10 V analog output
- 2 or 4 setpoints with relay outputs
- RS-232, RS-485, USB or fieldbus capabilities
- NEMA 4X / IP rating IP 65 (transparent protection cover – Option 'COVER PAX')
- Desktop or industrial steel housing
- Rail DIN adaptor

Applications

The DISP-PAXDP is perfectly designed to the following applications:

- Industrial weighing
- Force or torque measurement
- Mass flow measurement (weight speed)

Functions

- Reset (tare)
- Maximum and minimum memories
- Smart filter
- Totalization of several measurement
- Protection code

Specification

	DISP-PAXDP	DISP-PAXDP24
Type	Dual process input meter	Dual process input meter
Input range	±20 mV / ±10 V DC**	±24 mV / ±10 V DC**
Sensor excitation	18 V DC ±20 % @ 70 mA max. per input channel	18 V DC ±20 % @ 70 mA max. per input channel
Display	5 digits (14.2 mm [0.56 in])	5 digits (14.2 mm [0.56 in])
Accuracy	0.1 % F.S.*	0.1 % F.S.*
A/D converter	16 bits	16 bits
Converter rate	Up to 20 readings/s	Up to 20 readings/s
IP Rating	IP 54***	IP 54***
Temperature data		
Service temperature range	0 to 50 °C (32 to 122 °F)	0 to 50 °C (32 to 122 °F)
Storage temperature range	-40 to 60 °C (-40 to 140 °F)	-40 to 60 °C (-40 to 140 °F)
Electrical data		
Power supply	85 to 250 V AC (21 VA)	18 to 36 V DC (13 W), 24 V AC (16 VA)

* F.S.: Full scale

** Configurable at user's level

*** IP rating only for front panel

Specifications subjects to change without notice

Dimensions

Dual input display DISP-PAXDP

All dimensions in mm (in)

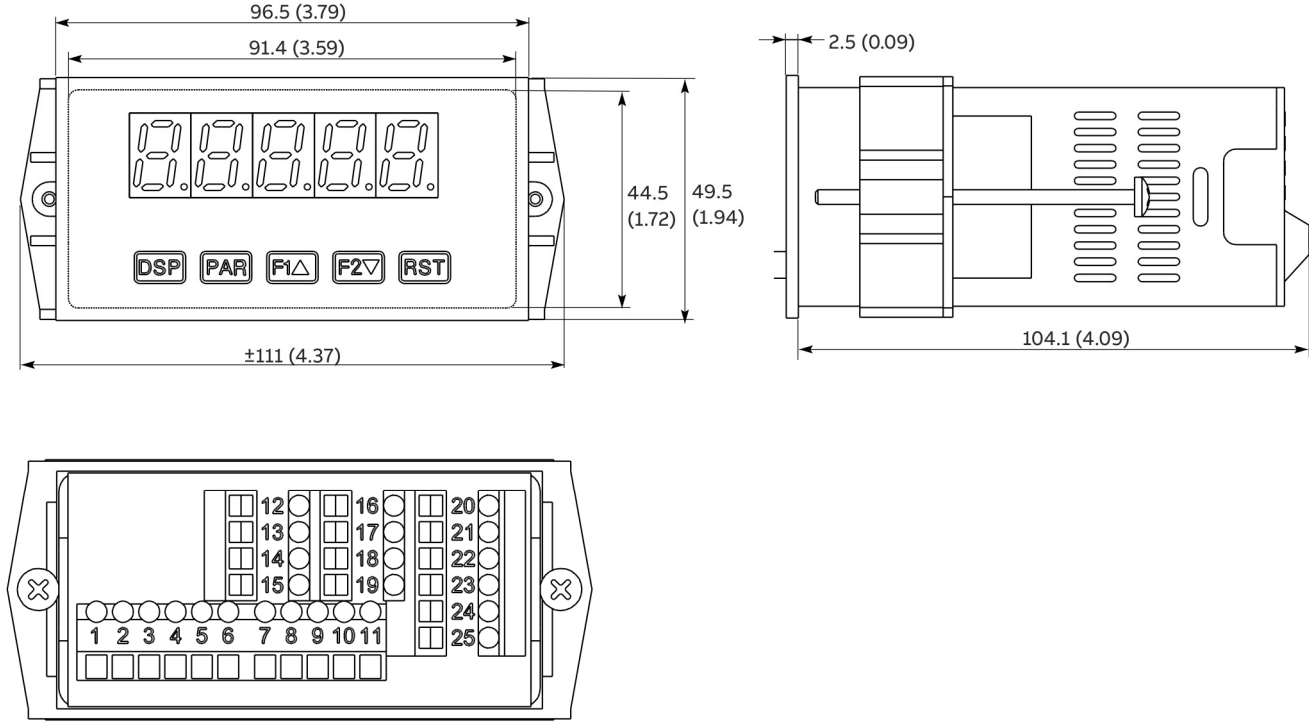


Figure 1: Dimensions

Note

Recommended min. clearance (behind the panel) for mounting is depth 140 mm (5.51 in) and height 53.4 mm (2.10 in). Panel cut-out 92 mm (-0 / +0.8) 45 mm (-0 / +0.5).

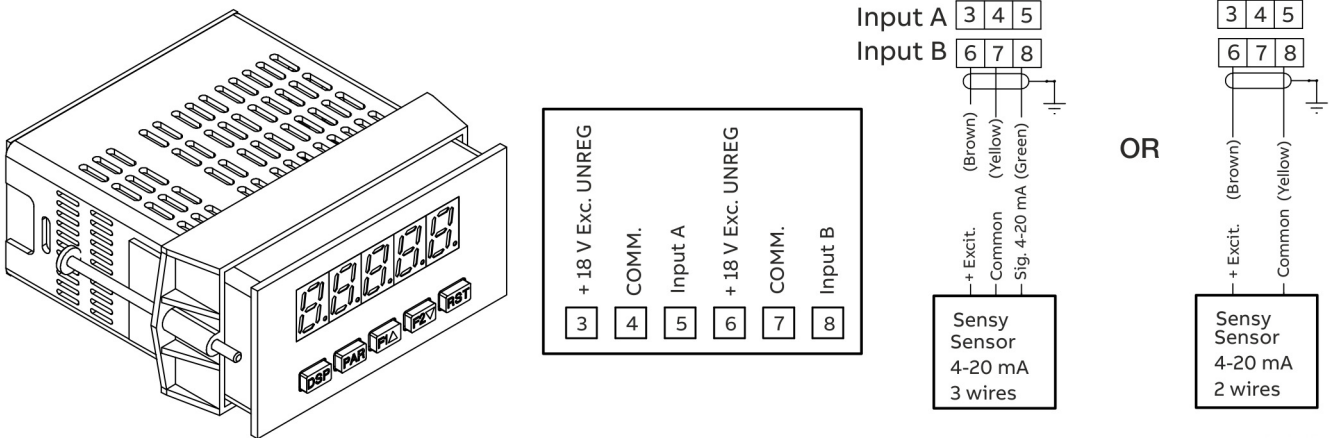
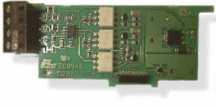
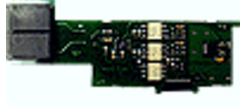
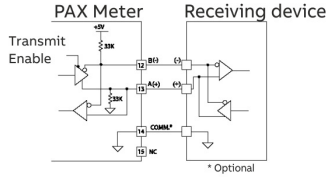
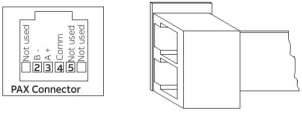


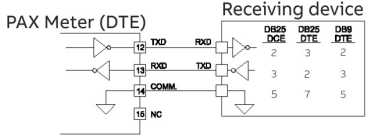
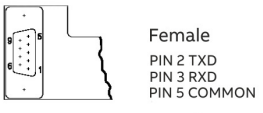


Figure 2: Other view / terminals


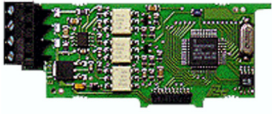
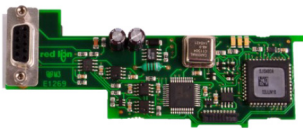
Option cards

Communication cards (max. 1 choice)		Description	
CARD-CDC10	CARD-CDC1C	CARD-CDC10	CARD-CDC1C
			

- RS-485 field bus communication interface.
Available with crew terminals or DB9 connector

CARD-CDC20	CARD-CDC2C	CARD-CDC20	CARD-CDC2C
			

- RS-232C half-duplex communication interface.
Available with crew terminals or DB9 connector

CARD-CDC30	CARD-CDC40	CARD-CDC50 / CARD-CDC50-CRANE	
			
<ul style="list-style-type: none"> • DeviceNet communication interface • Modbus communication 		<ul style="list-style-type: none"> • Profibus DP (EN 50170) communication interface 	

Analog output card	Description
CARD-CDL10	CARD-CDL10
	<p>16 + } 0 to 10 17 - } Analog output</p> <p>18 + } 4 to 20 or 19 - } 0 to 20 mA Analog output</p>

- Analog output signal : 0 to 20 mA, 4 to 20 mA or 0 to 10 VDC

Relay cards (max. 1 choice)													
CARD-CDS10 & CARD-CDS20													
	<table border="0"> <tr> <td>CARD-CDS10</td> <td>CARD-CDS20</td> </tr> <tr> <td>Relay 1 </td> <td>Relay 1 </td> </tr> <tr> <td>Common </td> <td>Common </td> </tr> <tr> <td>Relay 2 </td> <td>Relay 3 </td> </tr> <tr> <td>Common </td> <td>Common </td> </tr> <tr> <td></td> <td>Relay 4 </td> </tr> </table>	CARD-CDS10	CARD-CDS20	Relay 1 	Relay 1 	Common 	Common 	Relay 2 	Relay 3 	Common 	Common 		Relay 4 
CARD-CDS10	CARD-CDS20												
Relay 1 	Relay 1 												
Common 	Common 												
Relay 2 	Relay 3 												
Common 	Common 												
	Relay 4 												

Cards already included

- Analog output card: CARD-CDL10
- Relay cards: CARD-CDS20 (4 setpoints)
- Models: CABIN-2×B1SUMD ; CABIN-4×B1SUMD
- Models: INDI-BOY DISP-BOYP, CRANE-BOY CRANE-BOYP, DISP-BOYDP, CRANE-BOYDP, CRANE-SUMD DISP-SUMD, CRANE-BOY-Exd, CABIN-2×B1SUMD, CABIN-4×B1SUMD

Notes



ABB Automation GmbH
Measurement & Analytics

Force Measurement
Oberhausener Str. 33
40472 Ratingen
Germany
Tel: +49 2102 12-2520
Fax: +49 2102 12-1414
Mail: ForceMeasurement@de.abb.com

abb.com/measurement

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail.
ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.
We reserve all rights in this document and in the subject matter and illustrations contained therein.
Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB.