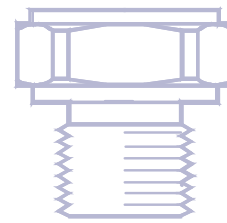
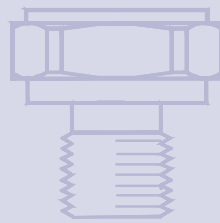
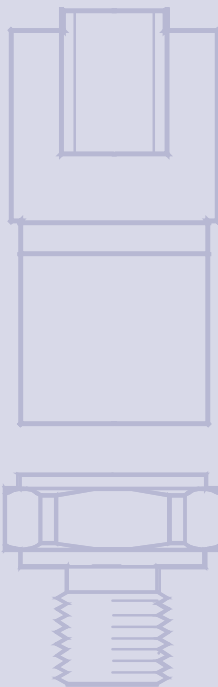




MBS1250 Heavy Duty Pressure Transmitter

Product Electrical Installation



COMPLIANT

Revisions History

Table of Revisions

Date	Page	Changed	Rev
20 Feb, 2009			AA

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Front cover illustrations: F101869, 2469



MBS1250 Heavy Duty Pressure Transmitter

Product Electrical Installation

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Literature References

Refer to *MBS1250 Heavy Duty Pressure Transmitter Data Sheet 11058299* for complete product electrical and mechanical specifications.

Refer to *MBS1250 Heavy Duty Pressure Transmitter Compliant Function Block User Manual 11062069* for compliant function block set-up information.

Technical literature is available at: www.sauer-danfoss.com

Product Image



Part Numbers

Pressure Transmitter Ranges/Part Numbers

Measuring range	Sauer-Danfoss material number		
	Pressure connection		
	SAE 4	SAE 6	G1/4
0 to 40 bar [580 psi]	11044499	11044545	11044551
0 to 160 bar [2320 psi]	11044500	11044546	11044562
0 to 250 bar [3626 psi]	11044501	11044547	11044563
0 to 400 bar [5800 psi]	11044542	11044548	11044564
0 to 500 bar [7250 psi]	11044543	11044549	11044565
0 to 600 bar [8700 psi]	11044544	11044550	11044566

Description/ Theory of Operation

Sauer-Danfoss MBS1250 Heavy Duty Pressure Transmitters convert measured pressure into a linear, temperature-compensated, output signal with a range of 10% to 90% of transmitter supply voltage. The PLUS+1™ GUIDE pressure transmitter compliant function block requires that transmitter supply voltage be 5 Vdc regulated sensor power provided by a PLUS+1 control device.

A unique PLUS+1 GUIDE pressure transmitter compliant function block template is available for each transmitter range.

Be sure that the PLUS+1 GUIDE compliant function block template being used is appropriate for the range of the pressure transmitter installed in the system.

Electrical Specifications

Pressure Transmitter Electrical Specifications

Nominal output signal	10 to 90% of supply
Supply voltage—V supply (polarity protected)	5 Vdc \pm 0.5 Vdc
Power consumption	4.5 mA at 5 Vdc
Output impedance	90 Ω
Load resistance	> 5 k Ω at 5 Vdc
Accuracy (at reference conditions)	\pm 0.5% full scale
Hysteresis and repeatability	$\leq \pm$ 0.1% full scale
Thermal zero point shift	< \pm 0.15% full scale/ 10K
Thermal sensitivity (span) shift	< \pm 0.15% full scale/ 10K
Response time liquids (10 to 90%)	< 1 ms

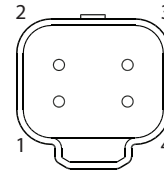
Pinout

Pinout and Wiring Information

Pin	Function
1	Supply -
2	Supply +
3	P. E. (not used)*
4	Output +

* Pin 3 connected to case; typically not used (P. E. = protective earth).

*4 pin Deutsch®
 Receptacle DT-04*



2398

Pin Compatibility

PLUS+1 Module Pin Type/Pressure Transmitter Pin Compatibility

PLUS+1 module pin type	Acceptable use: device pin number
Sensor power +	2
Sensor power -	1
AIN/CAN0 shield	4
AIN/CAN1 shield	4
AIN/CAN2 shield	4
DIN/AIN	4
DIN/AIN/FreqIN	4
AIN/Temp/Rheo	4

Mating Connector

Pressure Transmitter Mating Connector

Mating connector	Sauer-Danfoss material number
4 pin Deutsch® Plug DT-06-45-E003 Series bag assembly	11028348



MBS1250 Heavy Duty Pressure Transmitter
Product Electrical Installation
Notes

Notes



Our Products

Open circuit axial piston pumps
Gear pumps and motors
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Closed circuit axial piston pumps and motors
Bent axis motors
Hydrostatic transmissions
Transit mixer drives
Hydrostatic transaxles
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Proportional valves

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