



CANopen[®] Master Gateway

for DPS 8000 Pressure Transducers

fact sheet

GEA-S1283A



DPS 8000 Digital Output Pressure Transducers

Mark* Vle control systems offer a wide range of I/O types and bus solutions for flexible instrumentation integration. This includes a CANopen Master Gateway for DPS 8000 digital output pressure transducers. Temperature-corrected-pressure readings as digital outputs are presented in any one of 24 engineering units with minimal user setup. The integral digital electronics enhance performance to levels unmatched by traditional analog transducers.

CANopen complies with the EN 50325-4 standard for embedded control systems. It includes an addressing arrangement, several communication protocols, and an application layer defined by a device profile. The protocol specifications are developed and maintained by the Controller Area Network (CAN) in Automation standards organization, which is comprised of 500 companies.

I/O Modules

The CANopen (PCNO) I/O module has a common design with other Mark Vle control I/O modules. It includes a local processor, data acquisition board, and simplex or dual redundant communications on the 100 MB Ethernet I/O network. The ToolboxST* application is used for configuration and diagnostics.

References

- GEI-100737, Mark Vle PCNO CANopen Master Gateway Module Description
- <http://www.ge-mcs.com/en/pressure-and-level/transducerstransmitters/rps-dps-8000.html>

Connection and Baud Rate

Item	Description
Connection	RS-485 interface through DE-9 D-sub receptacle
Baud rate 500 kbps	15/25 devices (PCNO-H1A/H1B) 100 m (328 ft.) maximum, CANbus network 39 m (128 ft.) cumulative drop line length
Baud rate 250 kbps	15/18 devices (PCNO-H1A/H1B) 250 m (820 ft.) maximum, CANbus network 78 m (256 ft.) cumulative drop line length
Baud rate 125 kbps	8/8 devices (PCNO-H1A/H1B) 500 m (1,640 ft.) maximum, CANbus network 156 m (512 ft.) cumulative drop line length

Additional Transducer Features

The DPS 8000 functionality offers features such as user access to last/next calibration date, calibration routines, and serial number identification. It is capable of operating from a range of supply voltages (including batteries). Therefore, it is fully I/O isolated for complete system protection. With ranges from 5 - 1000 psi (350 mbar to 70 bar), and excellent accuracy over a wide temperature range, it is ideal for many applications where performance is essential.

Benefits

- Less installation and maintenance cost than analog transducers
- Flexibility over a wide operating range
- Improved performance and accuracy

For further assistance or technical information, contact the nearest GE Sales or Service Office, or an authorized GE Sales Representative.

© 2010 - 2014 General Electric Company, USA. All rights reserved. * Indicates a trademark of General Electric Company and/or its subsidiaries. All other trademarks are the property of their respective owners.

GEA-S1283A Issued: Jan 2012 Revised: Jul 2014