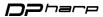
General Specifications

Model EJA Series With HART[®] Communication Differential Pressure Transmitter



GS 01C22T01-00E

DPharp EJA Series can perform remote setting and monitoring of measuring ranges, damping time constant, etc. through HART[®] Communicator.

A self-diagnostic can also be performed on the transmitter.

FEATURES

- Remote Ranging And Monitoring Functions Ranges can be remotely set and monitored through HART[®] Communicator.
- On-line Communication

Output signal and communication signal do not interfere making on-line communication possible.

Zero Adjustment Function

Zero point easily adjusted at external zero adjustment.

Self-Diagnostic

Pressure input outside of range limit, excessive ambient temperature incorrect span setting etc. can be diagnosed through HART[®] Communicator.

• Wide Transmitter Offering

DPharp EJA Series with HART[®] Communication is applicable to the entire DPharp EJA series.

STANDARD SPECIFICATIONS

For items other than those described below, refer to each General Specification sheet.

Write Protection Switch (Optional code F1): Write Enable/Disable switch

Conditions of Communication Line: Supply Voltage; General Use & Explosion proof Type 16.4 to 42 V DC Intrinsically safe Type Refer to each General Specification sheet. Load resistance: See figure 1. Minimum cable size; 24 A WG, (0.51 mm diameter). Cable type: Single pair shielded or multiple pair with overall shield. Maximum twisted-pair length; 10,000 ft (3,048 m) Maximum multiple twisted-pair length: 5,000 ft (1,524 m) Spacing from power line; 15 cm or more.



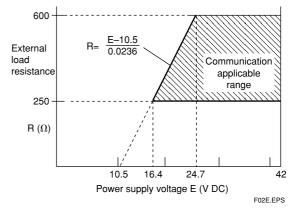


Figure 1. Relationship Between Power Supply Voltage and External Load Resistance



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■ FUNCTIONAL SPECIFICATIONS

Functional specifications for remote setting and monitoring (operated from HART® Communicator)

ITEM	DISPLAY	SETTING	SUMMARY	Settings on Shipment	
Tag Number (Software Tag)	0	0	Up to 8 alphanumeric characters	As specified in order	
Output Mode	0	0	LINEAR/SQUARE ROOT output	'LINEAR' unless otherwise specified in order	
Display Function	0	0	LINEAR/SQUARE ROOT display	'LINEAR' unless otherwise specified in order	
Display Mode	0	0	Normal % scale, User Set scale, Alternate Normal % and User Set scale, Input Pressure display, or Alternate Input Pressure display and Normal %.	'NORMAL %'	
Damping Adjustment	0	0	0.2, 0.5, 1, 1.5, 2, 4, 8, 16, 32, 64 sec.	2 sec.	
Lowest Limit of Calibration Range	0	0	Pressure equal to 4 mA value.	As specified in order	
Highest Limit of Calibration Range	0	0	Pressure equal to 20 mA value.	As specified in order	
Instantaneous Value of Input (Differential Pressure or pressure)	0	-	Display actual Differential Pressure or actual Pressure.	-	
Instantaneous Value of Output (Current)	0	_	Display actual % of calibrated span or 4-20 mA output value.	-	
Unit of Calibration Range	0	0	in H_2O , in Hg, ft H_2O , mm H_2O , mmHg, psi, bar, mbar, g/cm ² , kg/cm ² , Pa, kPa, MPa, Torr, or atm	As specified in order	
Constant Current Output	0	0	4 to 20 mA DC	-	
Self-diagnostic	0	0	Pressure input outside of range limits, Excessive ambient temperature, or Incorrect rangesetting.	-	
Burst Mode	-	0	Continuous transmission of pressure values, % output values or 4-20 mA output values	_	
Multidrop Communication	0	_	Up to 15 transmitters can be connected.	_	

T01E.EPS

MODEL AND SUFFIX CODES

- Output signal . . . 4 to 20 mA DC with digital communication (HART[®] protocol)

OPTIONAL SPECIFICATIONS

Item	Description	Code
Data Configuration	Description into "Descriptor" parameter of HART protocol (max. 16 characters)	CA
		T02E.EPS

<Ordering Information>

Specify the following when ordering.

- 1. Model, suffix codes, and optional codes
- 2. Calibration range and units:

1) Calibration range can be specified with range value specification up to 5 digits (excluding any decimal point) for low or high range limits within the range of -32000 to 32000.

2) Specify only one unit from the table, 'Settings in shipment.'

3. Select linear or square root for output mode and display mode.

Note: If not specified, the instrument is shipped set for linear mode

4. Display scale and units (for transmitters equipped with integral indicator only)

Specify either 0 to 100 % or engineering unit scale and 'Range and Unit for engineering units scale: Scale range can be specified with range limit specifications up to 5 digits (excluding any decimal point) for low or high range limits within the range of -19999 to 19999.

- 5. Tag Number (for tag plate); up to 16 alphanumeric characters
- 6. Software Tag (for amplifier memory); up to 8 alphanumeric characters

<Reference>

HART; Trademark of the HART Communication Foundation.