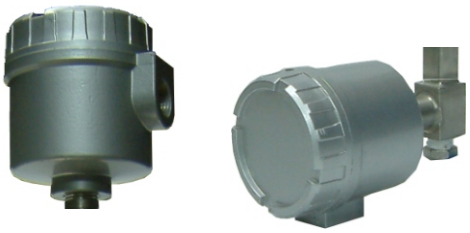
SMART POT/I CONVERTERS 320
HART® COMPATIBLE OR PC CONNECTION

DOERS

- FULLY HART® COMPATIABLE
- INPUT/ OUTPUT ISOLATION 1500VAC
- SENSOR DIAGNOSTICS
- OPTIONAL PC SOFTWARE
- PROGRAMMABLE LINEARIZATION
- EXCELLENT EMC PERFORMANCE
- DURABLE & SHOCKPROOF DESIGN
- OPTIONAL INTRINSICALLY SAFE FOR Eex ia IIC T6 APPROVED
- IMPROVED QA WITH DATA STORAGE
- CONTROLLED OUTPUT FOR REMOTE CALIBRATION

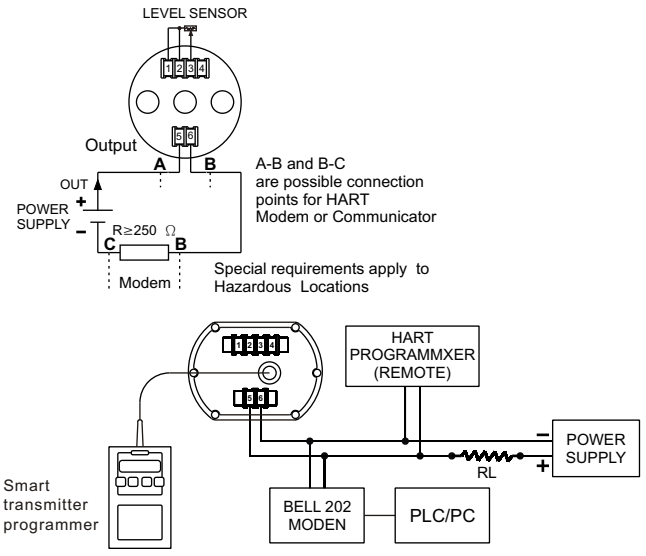


SPECIFICATIONS

GENERAL

DETECTING PORTION : Level detector / Potentiomete
DISPLAY : 8x1 character LCD indicator For programming and display of input / output parameters and status
INPUT SIGNAL : 0 to 0.5KΩ / 0 to 50KΩr
OUTPUT SIGNAL : 4～20mA DC , 2-wire system
OUTPUT RESOLUTION : 5μA
ZERO ADJUSTMENT : 0～100% unlimited
SPAN ADJUSTMENT : 50Ω min.
STABILITY : 0.1% / year
ACCURACY : ± 0.1% F.S.
HOUSING MATERIAL : Aluminum alloy with epoxy coating
HOUSING RATING : IP67
CABLE ENTRY : 1/2"NPT(F)
MOUNTING : G1/2" screws on sensor head
LOOP LOAD : 610Ω at 24V and 23mA (Standard)
520Ω at 24V and 23mA (EX-version)
LOAD INFLUENCE : Negligible for sensor wire resistance or Loop load or power supply
RFI INFLUENCE : ± 0.2% of input span (0.15～1000 MHz)
ELECTRICAL PROTECTION : EMC performance and shockproof (Standard) CE / FM / EX Approved (Optional)
AMBIENT TEMPERATURE : -10～+85°C
OPTIONAL AUXILIARY : Hart modem or communicator 275

WIRING CONNECTIONS



SMART FUNCTIONS

HART® compatible

True on-line communication with hand-held HART communicator 275

Sensor diagnostics

SmartSense detects low sensor isolation (essential for correct measurements). Selectable sensor break action.

Simplified loop check-up

The transmitter works as an accurate current generator.

On-screen indications of input and output

Valuable tools for temporary measurements.

Improved qa with data storage

Vital information, such as TAG-No., maintenance record etc. can be stored in the nonvolatile memory.

Customized linearization and engineering units

The accurate and versatile 50-point *Customized linearization* can be used to create almost any type of linearization curve for sensor input. By combining *Customized linearization* with the use of *Engineering units*, the transmitters can be programmed to give a linear output corresponding to a specific measuring range expressed in the primary process value.

Sensor break monitoring

Monitor sensor break and force the output signal to a user defined level, when any sensor lead is broken or disconnected. The sensor break monitoring can be switched off. The monitoring is furnished with a *pulsed excitation current*. This eliminates the voltage drop in the lead wires (giving a measuring error), caused by a standard DC excitation current.

Controlled output for instrument calibration

The smart transmitter can be set to automatically provide the recurring output values of 4, 12, 20, 12, 4 mA in a periodical scheme. Each level will last 15 seconds. The total time for controlled output is adjustable up to 30 minutes With the hand-held Hart Communicator model 275, a constant transmitter output can be set at any level between 4 and 20 mA.

DOERS TECHNOLOGY CORPORATION
4F, NO. 1, LANE 11, TZU CHIANG STREET, TU-CHENG INDUSTRIAL PARK, TAIPEI COUNTY , TAIWAN 23678
Website:www.doers.com.tw
E-mail:doers.tech@msa.hinet.net
TEL : 886-2-22682689
FAX : 886-2-22681248

ISO 9001 : 2000
Certificate No. EQAICC-Q-R5164

The specifications are subject to change without prior notice.