

PROTECH903 SPECIFICATIONS

PERFORMANCE

Zero drift $\pm 2\%$ F.S

Span Drift $\pm 2\%$ F.S.

Accuracy $\pm 2\%$ F.S. for ranges 1 to 50 ppm
 $\pm 2.5\%$ F.S. for ranges > 50 ppm
 $\pm 3\%$ F.S for ranges 0.5 to 1 ppm
 $\pm 5\%$ F.S. for ranges < 0.5 ppm

Repeatability $\pm 2\%$ F.S. for ranges 1 to 50 ppm
 $\pm 2.5\%$ F.S. for ranges > 50 ppm
 $\pm 3\%$ F.S for ranges 0.5 to 1 ppm
 $\pm 5\%$ F.S. for ranges < 0.5 ppm

Sensitivity $\pm 1\%$ F.S.

Linearity $\pm 2\%$ F.S.

Response time: 30 seconds to alarm (excluding sample system)

ENVIRONMENT

Ambient temperature 0°C to 50°C (32°F to 122°F)

Dimensions H2S: 686 mm W x 838 mm H x 318 mm D (27" W x 33" H x 12.5" D)
TS option: 686 mm W x 1219 mm H x 318 mm D (27" W x 48 " H x 12.5 D)

Weight H2S Div 1: 27.2 kg (60 lbs)
H2S Div 2: 20.4 kg (45 lbs)
TS Div 1: 36.3 kg (80 lbs)
TS Div 2: 29.4 kg (65 lbs)

UTILITIES

Power & consumption H2S:10-32 VDC, 10 watts + 1.5 watts per solenoid
H2S: 90-230 VAC, 50/60 Hz, 10 watts + 17 watts per solenoid
TS: 90-230 VAC, 50/60 Hz, 250 watts + 17 watts per solenoid

Sample flow 100 cc/min, 1 Barg (0.21 SCFH, 15 psig)

Gas requirements TS Option: Hydrogen 180 cc/min, 1 Barg (0.38 SCFH, 15 psig)

COMMUNICATIONS

Digital Outputs Modbus RS232, Modbus RS485, Modbus TCP/IP (optional)
Ethernet
USB

Digital Inputs 4 dry contact, 4 wet

Analog Inputs 2 x 4-20 mA, user scalable, loop or self powered

Analog Outputs 6 x 4-20 mA, user scalable, loop powered

Relays 6 x SPDT relays, 5 amps @ 30 VDC or 8 amps @ 120/230 VAC

APPROVALS & CERTIFICATIONS

CSA (C, CUS) Class 1 Division 1, Groups BCD T3
CSA (C, CUS) Class 1 Division 2, Groups BCD T3
ATEX Ex db [ia] ia op is IIB+H2 T4 Gb
IECEX Ex db [ia] ia op is IIB+H2 T4 Gb
China Pattern Approval
Russia TR-CU
Russia Pattern Approval
India CCOE