

Honeywell 900U02-0100 Manual

Brand	Honeywell
Product Series	Honeywell
Product Type	Current (2, 3, or 4 wire devices)

Description

Honeywell Safety Universal Input /Output Module 900U02-0100

Channels Non-redundant UIO configuration:161 Channels

Redundant UIO configuration: 14 Channels

24V Field Supply Voltage

24V DC(Typical)2,3

22V DC(Min)

27V DC(Max)

Load Max 4.2 Amps per module

500 mA per channel

Isolation 1.5 kVDC Module to Rack (Logic Side)

1.5 kVDC Module to Module

Update Rate 10ms

ESCP (Electronic Short Circuit Protection per channel) 620 mA re-settable

Fuse (per channel) Internal, non-replacable (1 Amp)

Field Supply Fuse Internal, electronic fuse (10 Amps)

Detail Specifications – Analog Input

Parameter Specification

Input type Current (2, 3, or 4 wire devices).

Sink type input transmitters are supported.

HART supported.

Input Channels 16 Maximum per module

(line monitored)

A/D Converter Resolution 16 Bit

Input Range 4-20 mA (cut-off limits: 3-22 mA)

Crosstalk, dc to 60 Hz (channel-to-channel) 58dB

Input Impedance 250 Ω nominal

Maximum Input Voltage (any input referenced to common, no damage)

0 - 30V

Hardware accuracy 0.1% of full-scale ($23.5 \pm 2^{\circ}\text{C}$)

0.2% of full-scale ($23.5 \pm 2^{\circ}\text{C}$) (For Redundant)

0.17% of full-scale (0 to $+60^{\circ}\text{C}$)

0.34% of full-scale (0 to $+60^{\circ}\text{C}$) (For Redundant)

Transmitter Field Power Conditioning Current limited to 24 mA

Input Filter First-order low-pass 1 kHz

Detail Specifications – Analog Output

Parameter Specification

Output Type 4-20 mA current loop.

HART supported.

Output Channels 8 Maximum per module 1

(with line monitoring)

Assignable as channels 9 to 16

Accuracy <0.5% of Full Scale (25°C) including linearity, entire operating temperature.

<1% of Full Scale (25°C) including linearity, entire operating temperature (for Redundant).

Output Ripple =< 125 mV peak-to-peak at power line frequency, across 250 Ohm load

Output Readback Accuracy 0.17% of full scale

Output Current Linearity $\pm 0.1\%$ of Full Scale nominal

Resolution 12 Bit

Directly Settable Output Current Range 2.4 mA to 21 mA

Maximum Resistive Load 7504 Ohms

Minimum Resistive Load 250 Ohms

Maximum Output Compliant Voltage

(24 V supply = 22 VDC through 28 VDC)

14 VDC

Maximum Open Circuit Voltage 24 VDC

Maximum Load capacitance < 1 μ F

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