

# Honeywell 900K01-0201

Honeywell 4 Channel Pulse/Frequency/Quadrature Module – DC Voltage type (900K01-0201)  
The 4 Channel Pulse/Frequency/Quadrature\* Module provides three different functionalities in the form of Pulse Input, Frequency measurement and Pulse Output. Each of these channels can be configured for any one of these three functions.

A green blinking status LED on the module indicates when the module is being scanned. A red status LED when module or channel diagnostics exist.

\*Note! Quadrature signal is not supported in current release.

## Item Specification

Input voltage range 0 VDC to 24VDC

Input per module 4

Digital Output type Open collector, 5 to 24V, 30mA max, used for fast signaling

## Pulse Input Specification

Input Voltage Range 0 VDC to 24 VDC

ON Voltage Level 3.0 VDC minimum

OFF Voltage Level 1.0 VDC maximum

Input Impedance 25K ohm

Frequency 10 KHz maximum

Minimum Pulse Width 3  $\mu$  sec

Pulse Counter 32 bits

Preset Value User may configure a preset count value within the range of 32 bit counter

Preset Action Settable as ON or OFF in HC Designer

Digital Output If preset action ON, output turns ON for 1 second.

If preset action OFF, output latches ON, and remains ON until counter reset command.

Counting based on Preset When the count equals preset value:

If preset action ON, counter is reset and immediately resumes count.

If preset action OFF, counter is not reset and counts beyond preset value.

Counter HOLD When the HOLD input to the pulse input I/O data type is ON in ControlEdge Builder, the counter holds its current value.

Counter RESET The counter may be reset only via its I/O data type in ControlEdge Builder, when an OFF to ON transition occurs on the RST input.

Counter Flags The OVERFLOW flag (STS=33) gets set when the module counter overflows. This flag can be reset when an OFF to ON transition occurs on RST input. Also, the PREI flag is set when the digital output of the module turns ON.

## Frequency Input Specifications

Input Voltage Range 0 VDC to 24 VDC

You can contact us through the following contact information

[www.sparetechplc.com](http://www.sparetechplc.com) +86 180 3000 5825 [sales@sparetechplc.com](mailto:sales@sparetechplc.com)

ON Voltage Level 3.0 VDC minimum  
OFF Voltage Level 1.0 VDC maximum  
Input Impedance 25k ohm  
Frequency 10 HZ minimum  
100K HZ maximum  
Minimum Pulse width (frequency ranges)  
500  $\mu$  sec (10 Hz to 500 Hz)  
50  $\mu$  sec (10 Hz to 5 KHz)  
2.5  $\mu$  sec (10 Hz to 100 KHz)  
Digital Output ON if put frequency out of range, else OFF

#### Pulse Output Specifications

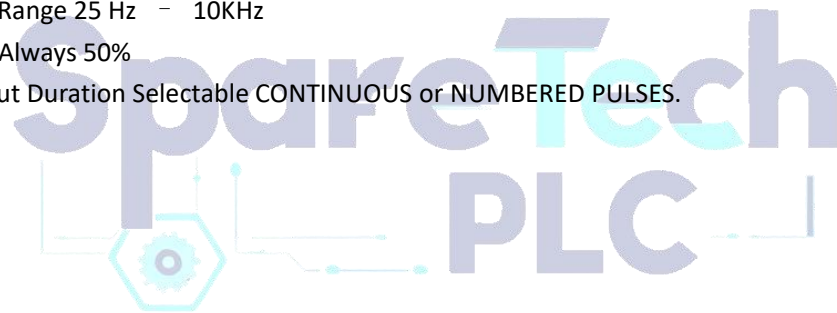
Channels Used Any one of the channels can be used for Pulse Output. However, the use of a particular channel for outputting pulses will render the particular input channel unusable for either of pulse or frequency input.

Digital Output Type Open Collector, 5 to 24V, 30 mA max.

Frequency Range 25 Hz - 10KHz

Duty Cycle Always 50%

Pulse Output Duration Selectable CONTINUOUS or NUMBERED PULSES.



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