

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

HONEYWELL DCS

CC-PPIX01 51410089-175

PULSE INPUT MODULE

Used with the applicable Experion Series C I/O configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Honeywell official manufacturer documentation

5.7. Pulse Input – CC-PPIX01

Function

The Pulse Input Module (PIM) provides the Experion C300 controller with the ability to monitor various pulse input field values. The PI module processes signals from pulse-generating devices and provides a calculated rate and an accumulated total. The PI supports a “fast cutoff” capability to stop dosing operations when the threshold has been met. High-accuracy and repeatable measurement capability make the PIM well suited for metering and custody transfer applications.

This module is specifically engineered to support the MeterSuite Custody Transfer Application including support for dual pulse per ISO6551. Implementation of ISO-6551/API 5.5 for dual pulse inputs, including Level A, pulse integrity.

Notable Features

- Extensive self-diagnostics
- Optional redundancy
- High Accuracy Frequency, Period and Pulse Width Measurement
- Supports the MeterSuite Application
- ISO 6551 Fidelity

Detail Specifications -Pulse Input

Parameter	Specification		
Input / Output Model	CC-PPIX01 - Pulse Input		
IOTA Model	CC-TPIX11	Redundant	12"
Number of Inputs	8 (Single) or 4 (Dual) Supports Mixed Combination of Single/Dual Input Channels		
Number of Outputs	2		
Input type	High-impedance, differential voltage , optically isolated (1000 VDC)		
Frequency Range	0 - 100 KHz Single Channel 0 – 10 KHz Dual Pulse Channel		
Frequency Accuracy (0.5 Hz – 100 KHz)	+/- 0.001% of Reading		
Input Voltage (Independent of Input Voltage Range)	0 to 35 VDC		
Input Voltage Trip Points	High Setting: Low to High: 8.4V ; High to Low: 7.7V Low Setting: Low to High: 2.8V ; High to Low: 2.0V		
Input Edge Selection	Configurable: Rising Edge (Default) or Falling Edge		
Channel Input Impedance	Greater than 70 K Ohms		
Input Channel Function	Frequency (PV), Accumulated Value (AV), Pulse Width High, Pulse Width Low, Period		
Isolated / Bussed Input Jumper Option	Isolated or bussed configuration selection per channel		
Internal / External Excitation	Power connection can support internal 24V operation or an external (user supplied) excitation voltage +5 to +30Vdc		