Digital Counter Module
DC2100

- 16 Digital Input Channels
- Channel 1-8 can be Programmable (Status, Counter, Frequency)
- Support Protocol MODBUS RTU or ASCII Command
- Support Quadrature Counter, Frequency (Hz) Mode

Digital Counter Module DC2100 Consist of 16 Digital Inputs which are capable for Source, Sink and Dry Contact. Channel 1 - 8 are able to program input as Status, Counter or Frequency. Computer PC and PLC can connect to device using Port RS485 communication. Counter and Rate can be read using Modbus Protocol (MODBUS ASCII or RTU)
Specifications

**Serial Interface**

**Serial Standards:**
RS485 (Isolated) 3 Pin Terminal Block

**Loading:** RS485 Max 32 Unit

**Distance:** RS485 Length 1 Km.

**Protocol:** MODBUS ASCII/RTU

**Supply Software:** Citect, Wonderware, LAB View etc.

**Serial Parameter**

**Baud Rate:** 4800, 9600, 19200, 57600

**Data Bits:** 8

**Stop Bits:** 1

**Parity:** None

**Digital Input**

**Number of Channel:** 16 Channels

**Sensor Type:** Wet Contact or Dry Contact

**Wet Contact (DI to COM):**
- ON: 12 to 24 VDC
- OFF: 0 VDC

**Dry Contact (DI to GND):**
- ON: Short to GND
- OFF: Open

**Status Mode:** ON, OFF

**Counter Mode:** Add, Subtract, Up/Down, Preset (Up/Down), Run/Hold, Quadrature,
Frequency (Hz)

**Frequency Mode:**
- Low: 0.1 Hz
- High: 100 Hz

**Minimum Pulse Width:** 2 msec.

**ADC Resolution:** 32 Bits

**Isolation:** Opto Isolated

**Power Requirements**

**Power Supply:** 12 to 35 VDC

**Power Consumption**

**Standby:** 30 mA @ 12 VDC

**Environmental Limits**

**Operating Temperature:** 0 to 55 °C

**Operating Humidity:** 5 to 95% RH

**Storage Temperature:** 0 to 70 °C

**Physical Characteristics**

**Dimension:** W88 x H133 x D31 mm.

**Mounting:** DIN Rail

**Warranty**

**Warranty Period:** 5 Year

**Ordering Information:**

Example DC2100

**Package Checklist**

1. DC2100
3. CD Software