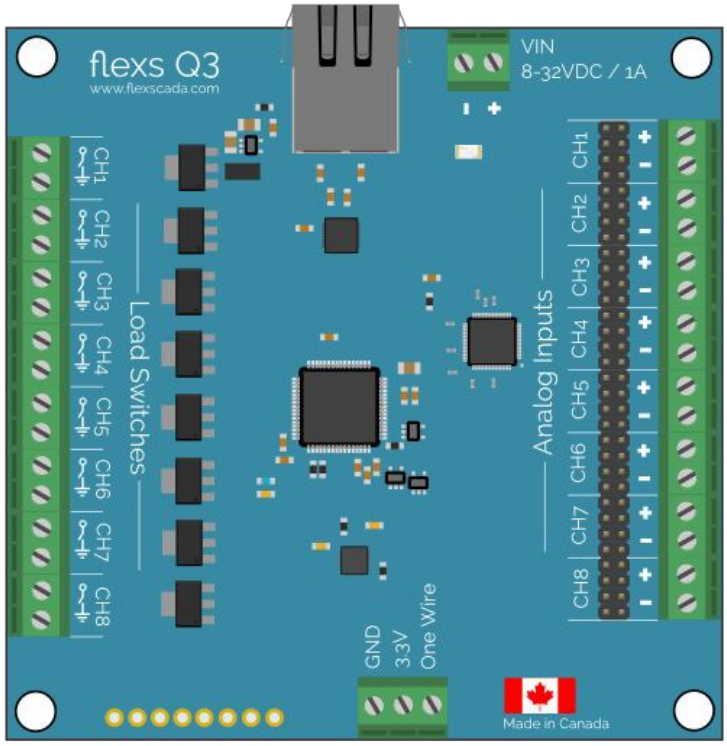

User Manual and Configuration Guide for the Flexs® Q3 Internet Based PLC

Ver 3.0.1

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flexScada

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About This Guide

The User Manual and Configuration Guide for the Flex Scada Flexs® family is for administrators, installers and users of the Flexs Q3 Internet Based Monitoring Device.

The following related documents for the flexs® fevice family
are available:

- Hardware Guide, which describe the basic wiring and hardware connections required to connect various sensor types to the device
- Developer's Guide, which assists in the development of custom firmwares for the Flexs Devices and detailed documentation on the protocals used to communicate with the device. Intended for oem's integrating the device into custom applications.
- Release Notes, which describe the new and changed features and fixed problems in the latest version of the software

Contents

Technical Specifications

Interfaces:

8X Universal Analog Inputs: 4-20MA, 0-5V, 0-10V, 0-60V

10/100Mb Ethernet

GPIO, I2C, One Wire, TTL Serial

Protocols:

SNMP V1 – Simple Network Monitoring Protocol V1

UDP – User Datagram Protocol

HTTP - Hyper Text Transfer Protocal

Supply:

8-30VDC (Fused, Input Polarity Protection)

Power Consumption: < 1W

Outputs:

8X Solid State, 10 Amp, DC Open Drain (50A 1ms Surge Rating)

Inputs:

8 Channel, Simultaneous Sampling @ 32KSPS Max

24Bit Analog Conversion

Programable Gain

Bipolar, Fully Differnatial

GPIO: 8X Input / Output, Max 3.3V 1ma (unprotected)

Physical: (L) 100mm x (W) 100mm x (H) 10mm

Enviorment: -25c to +85c | 0-90% RH (Non Condensing) **[Ultra Toughened Devices Available]**

Getting Started

Step 1: Power the device

Connect a DC powersource to the board as shown in **Fig A,**

The DC Power Source must have a voltage rating between 8 and 30 VDC

Observe proper polarity when connecting the supply with positive and negative leads going to there respective terminals.

The Flexs Q3 is fused, reverse polarity protected and has a ABSOLUTE MAXIMUM input voltage rating of 40VDC**.**

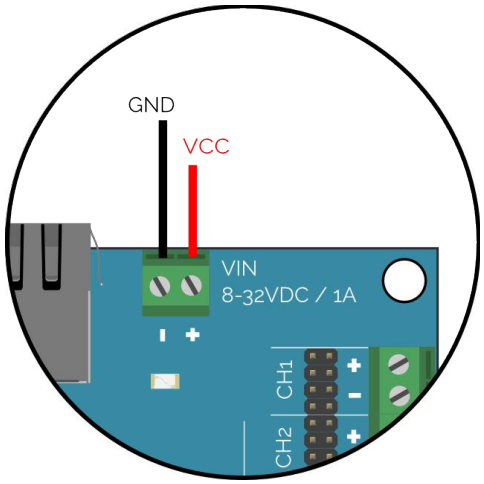

Fig A

Step 2: Connecting to the device

The flexs device needs network connectivity for configuration, monitoring and control which can be acomplished by either connecting a network cable between the computer and flexs device (**Fig B)** or connecting the flexs device through a router (**Fig C)**

*When connecting according to **Fig B,** The computer must be configured with a static IP Address withen the 192.168.1.xxx subnet*

Instructions here

*When connecting according to **Fig C** it is assumed that the router is already operating on the 192.168.1.xxx subnet*

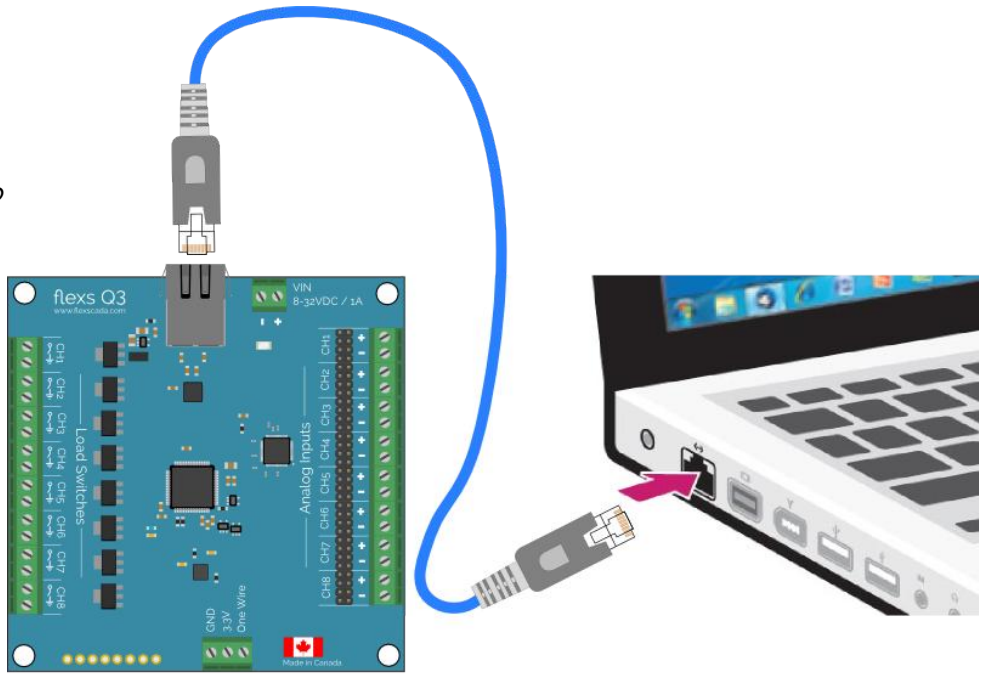

Fig B

Getting Started

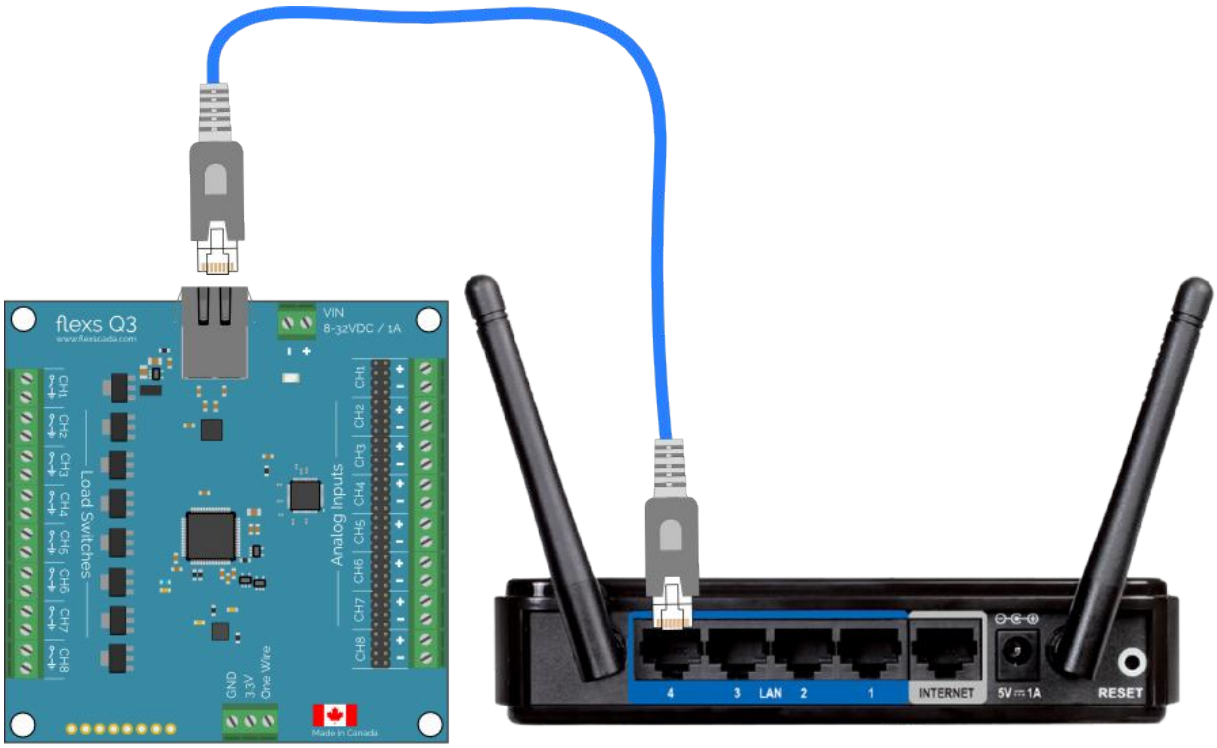

Fig C

Step 3: Install the Software

Go to http://www.flexscada.com/software and download the latest configuration client for your platform (Windows, Linux, OSX, Android supported)

Step 4: Connect to the device

Launch the software you downloaded.

Enter the **Default Device IP of '192.168.1.10'** into the 'Device IP' field and click the connect button as shown in **Fig D**

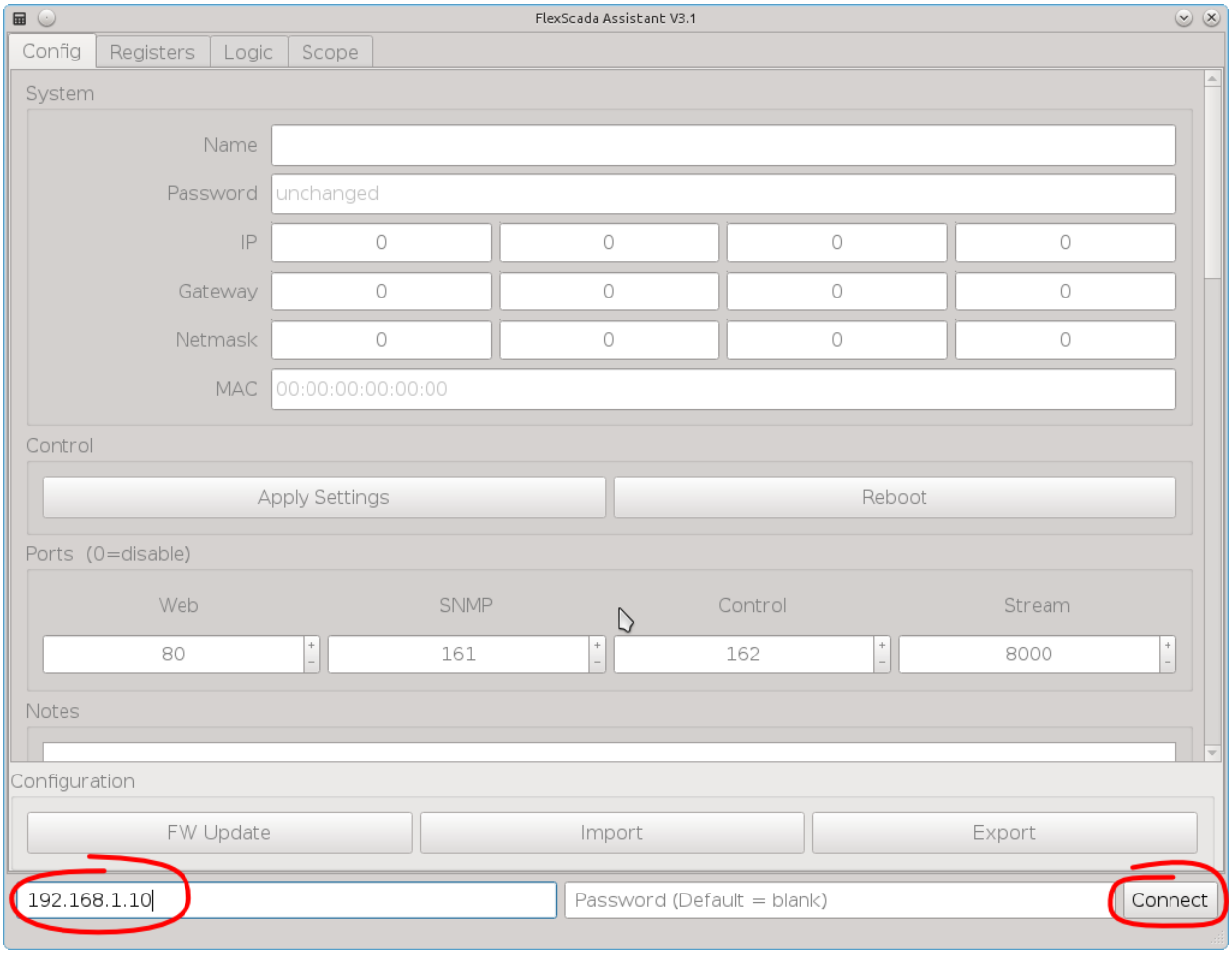

Fig D

If the status bar displays 'Successfully Connected' you have completed this section and the device is now ready to configure.

If an error is shown please check that

- The flexs device has power, (Status LED On or Blinking)
- Any firewalls on your computer and network have been disabled
- You computer is operating with an IP Address that is within the 192.168.1.xxx subnet

Network Configuration

Please contact us for the complete manual