USB-RS485-Pro

Installation & User Guide

Introduction

Operations

transfer operations.

The USB-RS485-Pro is an isolated RS485 digital

The device connects directly onto the USB port of a

Microsoft Operating System PC and is used to

interface the sensors and interfaces to the computer.

The RS485 network is a low speed, low power simple

to install network that is commonly used by local

The product is fully integrated to the Q-LOG data

The USB-RS485-Pro media converter appears in the

Windows Operating System as a COM port. This

COM port is used by software to pass configuration

information or data values from the sensors to the

The status LED indicators illuminate during any data

A6.

Installing device driver software 🔌 X

applications software such as Q-LOG.

intelligent sensors and interfaces to talk together.

network to USB media converter.

acquisition & display software.

Connector Driver Software

Direct Connection USB internal power rating

USB Port External Power Connection Power Supply Chip Set Operating System Support



Image above shows the USB-RS485-Pro

media converter connected to a Windows

self loading via Internet connection 1 x Sensor / interface recommend maximum 12V DC @ 75 mA USB Male type A

3.5 mm pitch

Microsoft accredited

12V DC @ 0 .. 2 Amp Max FTDI Windows XP. 7. 8



Model No. USB-RS485-Pro

Installation

The following installation procedure is to be used for a Microsoft Windows PC connected to the Internet.

- Connect the USB-RS485-Pro to the USB port on the PC 1
- The PC will show on the task bar 'the message "Loading Device 2. Driver", This message should appear automatically so long as the PC connects to the Internet.
- The status LED indicators will flash briefly. 3.

Multiple Sensors or Interface Connection

Click here for status. Task bar message during driver installation.



Identifying the USB-RS485-Pro Comm Port

The following section details how to determine the Comm Port number associated with the USB-RS485-Pro media converter within the Microsoft Windows Operating system



COM 6: This is the port number used in the Q-Log setup to identify the media converter dongle port.

| General | Port Settings Dr | iver Details | |
|---|---------------------------------|-------------------------|---|
| and the second se | USB Serial Port (COM6) | | |
| | Device type: | Ports (COM & LPT) | |
| | Manufacturer: | FTDI | |
| | Location: | on USB Serial Converter | |
| - Devic This | e status device is working p | property. | * |
| | | | ÷ |
| | | | |
| | | | |

Com Port Selection & Sample Rate Selection



Select the 'Configuration' menu option And the 'Logging Configuration' Window will appear.

Enter the 'Com Port' number for the USB media converter being used.



Logging Configuration Window

| Logging Configuration | | | | |
|-----------------------|--------------------------|--|--|--|
| COM Port 6 | COM 6 - | | | |
| Logging Interval | 10 Seconds 🔻 | | | |
| Fie Name | 5 seconds 10 Seconds | | | |
| test.txt | 30 Seconds 60 Seconds | | | |
| | 2 minutes | | | |
| | 5 minutes | | | |
| | 30 minutes | | | |
| | 1 hour OK Cancel | | | |
| | Curree | | | |

Logging Time Period

Q-LOG Data Acquisitionn & Display Software

Q-Log is the Keynes Controls Data Recording and Display software and has been designed solely for use with intelligent sensors. The software operates as a stand-alone package and uses the Keynes Controls RS485 and RS-485 media converters for communications to the sensors.

This software has been developed by Keynes Controls with the aim of ensuring data integrity and to remove where possible the Users requirement to understand programming techniques.

Q-Log gives the User a simple Windows environment for setting up and using intelligent sensors supporting the RS485 or RS-485 digital communications interface. Data is stored into a log file in CSV format for simply examination by a spreadsheet for uploading into a database. A series of panel meters and trend plots can be configured to display real-time results.

The dongle converts the USB port to a serial port for use with the sensors. The USB media converter is identified in the Windows operating system as a COMM port.

To find out which port is being used by the USB dongle go to:

Control Panel \rightarrow System \rightarrow Device Manager

There are minor differences in the screens that appear when accessing the Device Manager Window from the different versions of the operating system, however they all show devices identified similar to the image below:

This image is taken from the 'Properties' tab of the driver for the USB dongle.

The window shows the dongle installed and operating correctly.