Installation and Operation Guide

KMD-5576
USB Communicator

Contents

Important notices

NetSensor, WinControl, KMDigital, and the KMC logo are registered trademarks of KMC Controls, Inc.

AppStat, BACstage, FlexStat, KMC Connect, and TotalControl, are trademarks of KMC Controls, Inc.

Windows 2000, Windows XP, Vista, Windows 7, Windows 8 and Windows 10 are trademarks of Microsoft, Inc.

©2020, KMC Controls, Inc.

Printed in U.S.A.

Introduction

The KMD-5576 is a USB-to-EIA-485 converter that connects between a computer USB port and a BACnet MS/TP or KMDigital Tier 2 network.

Specifications

|	
USB compliance	USB 2.0
Optical Isolation	Up to 2.5 kilovolts between the USB and EIA-485 ports.
Operating systems	Windows 2000, Windows XP, Vista, Windows 7, Windows 8, Windows 8.1, Windows 10
Package contents	USB A/B cable KMD-5576 USB to EIA-485 converter KMD-5624 cable RJ-11 to RJ-11 four-conductor cable
Power supply	No external power source is required. The KMD-5576 draws power from the USB port and the Tier 2 device.
Indicators	Green USB transmit and receive LEDs
Construction	Black ABS flame retardant plastic
Replacement parts	KMD-5614 Four-conductor cable, RJ-11 both ends KMD-5624 Four-conductor cable, RJ-11 to data port

Dimensions
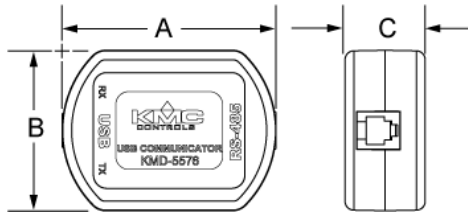
Table 1 KMD–5576 Dimensions

A	B	C
3.0 in.	2.25 in.	1.12 in
7.6 cm	5.7 cm	2.9 cm

Connecting to a network

The KMD-5576 is a USB-to-EIA-485 protocol converter to use with either KMDigital Tier 2 or BACnet MS/TP networks. The converter can be used with the WinControl, HCM, BACstage, KMC Connect, and TotalControl programs. The exact method to use the converter is described in the Help system for each of the programs.

The recommended network connection point is at either the RJ-12 NetSensor connector on a controller or the data port on a sensor. Compatible sensors are NetSensors, FlexStats, AppStats, compatible models of STE-5000 or STE-6000 series sensors, and other KMC Controls products with a data port.

Before using the KMD-5576 for the first time, see the topic *Installing drivers* on page 6.

Illustration 1   Connecting through a sensor

Illustration 2   Connecting directly to a controller

Illustration 3   Connecting to a FlexStat or Appstat

Installing drivers

The KMD-5576 requires the correct driver for each version of the Windows operating system. If the computer is enabled to automatically update drives when connect to the Internet, Windows will automatically install the correct driver the first time a KMD-5576 is plugged into the computer. If a new driver is required, it is available at the following link.

https://www.ftdichip.com/FTDrivers.htm

Download the driver that is correct for the version of Windows that the communicator will be used with. The method to install the driver will depend on the version of Windows running on the computer.

Verifying installation and COM port number

Once drivers are installed, plug in the KMD-5576 and then open the Windows Device Manager to confirm that the installation was successful and to verify the COM port number that Windows assigned to the USB communicator.

1. Open the Windows Device Manager. The exact method will depend on the version of Windows.
2. Expand **Ports (COM & LPT)** to list all assigned ports. Windows automatically assigns a port number to the USB communicator.
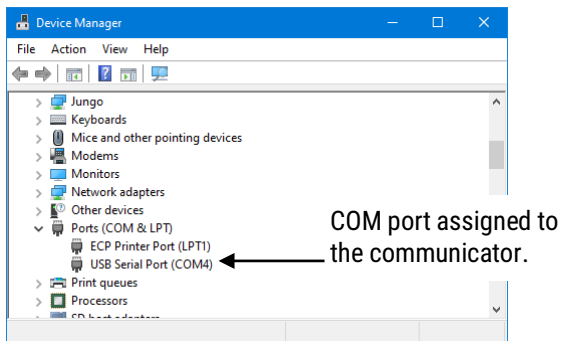
Illustration 4   Windows XP Device manager

3. Make note of the COM port number for use with KMC software.

Changing COM port numbers

When the first KMD-5576 is connected to a computer, Windows assigns the first available port number to it. Windows uses the electronic serial number in the USB communicator to detect and record each additional KMD-5576 communicators connected to the computer. As each new communicator is detected, Windows assigns a new COM port number for the exclusive use of that communicator. However, the port number can be changed with the Windows Device Manager.

To change the port number

1. Open the Windows Device Manager. The exact method will depend on the version of Windows.
2. Expand **Ports (COM & LPT)** to list all assigned ports.
3. Right-click the **USB Serial Port** that represents the communicator and then choose **Properties** from the shortcut menu.
4. Select the **Port Settings** tab and then click **Advanced**.
5. From **COM Port Number**, choose the required number.
6. Click **OK**.

KMC Controls, Inc.

P.O. Box 497 19476 Industrial Drive New Paris, IN 46553

U.S.A.

TEL: 1.574.831.5250

FAX: 1.574.831.5252

E-mail: info@kmccontrols.com