Introduction

Service Information S280-77-2 provides descriptive and application information for the KME4-79-1 and KME4-79-2 Data Port-to-RS232 Compatible Computer Interface Cable and Adapter Accessories. The accessories are used in conjunction with a Kyle Form 4C recloser control and the Form 4C INTERFACE™ Personal Computer Software program, running on a DOS-compatible personal computer. Refer to Bulletin KSFS2 for complete information.

For additional information on the Form 4C control, including a description of the front panel Data Port and the control’s digital communications capabilities, refer to Service Information S280-77-1.

Description

The data port-to-computer interface cable accessories shown in Figure 1, provide a convenient means to temporarily connect a personal computer to the front panel data port of a Form 4C recloser control, for programming or interrogation of the control.

Either accessory converts the low-power output of the Form 4C control’s data port circuitry, to the standard RS232 interface.

The KME4-79-1 accessory permits a temporary digital communications link from the control’s data port to any DOS-compatible personal computer with a standard IEEE 25-pin serial port. For personal computers with a 9-pin serial port; a standard DB25 male to DB9 female adapter cable must be used, which is readily available through most computer suppliers. The KME4-79-1 cable is six feet long.

The KME4-79-2 accessory permits a temporary digital communications link from the control’s data port to any DOS-compatible personal computer with a standard 9-pin serial port. The KFME4-79-2 cable is five feet long.

The lengths of the data port-to-computer interface cables are limited, due to the limitation of the low-power components used in the control data port circuitry and the minimal surge isolation of the data port from the outside world. The Form 4C control data port is designed for temporary connection only, of either a personal computer or the Cooper Power Systems hand-held Data Reader.

9 Volt dc Power Supply

A 9-15Vdc power supply is required to operate the KME4-79-1 accessory RS232-to-Data Port adapter only. A power input jack is located on the adapter. The accessory includes a a 9Vdc battery holder (battery not included) and cable, which connects to the power input jack. Battery operating life is approximately 4 hours (less under conditions of extreme heat or cold). It is used in applications where supply voltage is not readily available, such as remote substations or recloser line installations and interrogation of the Form 4C control via a personal computer, is required.

The 9Vdc power supply can also be obtained from any of the following sources:

1. Personal Computer Serial Port. The serial port of the personal computer (either a 25-pin or 9-pin serial port) may include a 9-15Vdc supply. Most computers with a 9-pin serial port do include a 9-15Vdc supply. If the computer’s serial port provides the necessary voltage, no external 9Vdc supply should be connected to the power input jack of the KME4-79-1 RS232-to-Data Port adapter. Refer to the personal computer instruction manual for additional information.

2. 120 Vac-to-9Vdc Supply Adapter Accessory (Catalog Number KME4-208, ordered separately). This voltage supply adapter rectifies and steps down a 120Vac input to 9Vdc output. It includes a plug that connects to the power input jack of the KME4-79-1 RS232-to-Data Port adapter.

Figure 1.

KME4-79-1 and KME4-79-2 data port-to-computer interface cable accessories.
3. **9Vdc Supply Cable Accessory** (Catalog Number KME4-207, ordered separately). This cable is identical to the 9Vdc battery holder and cable supplied, less the battery holder. The pigtail end is designed to tap the dc power available at a remote terminal unit (RTU). The other end of the cable includes a plug that connects to the power input jack of the KME4-79-1 RS232-to-Data Port adapter.

**NOTE**: The KME4-79-2 accessory does not require a separate voltage source.

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**Installation and Operation**

To connect the KME4-79-1 or the KME4-79-2 data port-to-computer interface cable accessory, refer to the connection diagram shown in Figure 2.

For operating instructions on the use of the Form 4C INTERFACE™ Personal Computer Software program, running on a DOS-compatible personal computer, refer to Bulletin KSPS2.

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**Figure 2.**

Diagram of Form 4C control data port-to-computer connections using either the KME4-79-1 or the KME4-79-2 data port-to-computer interface cable accessories.