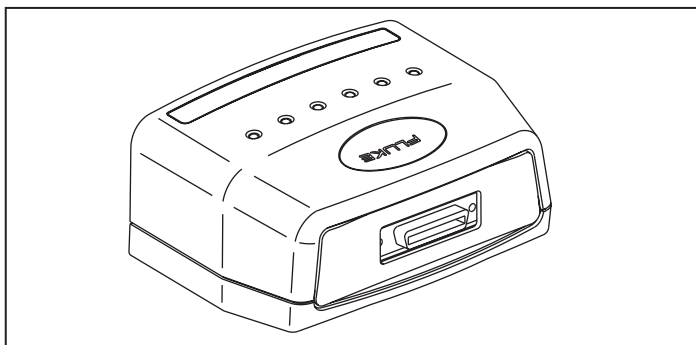


FLUKE®

660M-S Frame Relay Module

For Serial Interfaces

Instruction Sheet



abk01f.eps

Introduction

Model 660M-S (hereafter, "interface module") allows you to connect the 660 Series Frame Relay Installation Assistant (hereafter, "tester") to a router, Frame Relay Access Device (FRAD), or Channel Service Unit/Data Service Unit (CSU/DSU).

Accessory test cables are available from Fluke to connect the interface module to the following types of serial interfaces:

- V.35
- X.21
- RS-449/V.36
- RS-530
- RS-232/V.24

Refer to the *660 Series Frame Relay Installation Assistant Users Guide* for accessory test cable information.

Note

This Instruction Sheet provides installation instructions, hardware specifications, and other supporting information only. Refer to the 660 Series Users Guide for operating instructions and an explanation of the status indicator functions.

Safety Information

A **Warning** identifies conditions and actions that pose hazards to the user; a **Caution** identifies conditions and actions that may damage equipment.

Safety Information (cont.)







Warning

Read the **Safety Information** in the **660 Series Users Guide** before you install and use this interface module.

Use the interface module only as specified in the **660 Series Users Guide** and this **Instruction Sheet**; otherwise protection provided by the interface module and tester may be impaired.

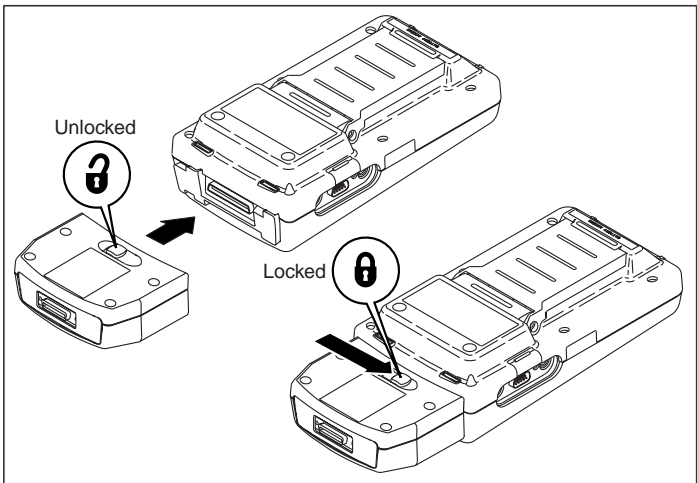
Do not use the interface module if the case is damaged.

International symbols used on the interface module and tester are explained below.

Symbol	Meaning
	Important information
	Suitable for connection to the public telephone network
	Not for connection to the public telephone network
	May contain Ni-Cd batteries. Dispose used Ni-Cd batteries through a qualified recycler or hazardous materials handler.
	Conforms to European Union directives
	Conforms to Canadian Standards Association standards for the U.S.A. and Canada

Installation

Attach the interface module to the tester as shown below, with the lock button to the right (unlocked) as you hold the tester with the back toward you. With the interface module seated in its mating connector, move the lock button to the left to engage the locking mechanism.



Test Cable Attachment

Refer to the *660 Series Users Guide* for information about accessory test cable applicability and usage.

Cleaning the Interface Module



To avoid personal injury or damage to the interface module or tester, do not allow water into the case.

Caution

To avoid damaging the plastic case, do not use solvents or abrasive cleaners.

Clean the interface module with a soft cloth dampened with water or water and a mild soap.

Service Center Repair

Repairs, parts replacement, and servicing should be performed only by qualified service personnel. In case of difficulty, verify that the interface module and tester are being operated in accordance with the instructions in the *660 Series Users Guide*.

If the interface module is faulty, contact Fluke for shipping instructions. An interface module covered by the Warranty will be promptly repaired or replaced (at Fluke's option) and returned to you at no charge. If the Warranty period has expired, the interface module will be repaired and returned for a fixed fee. Contact Fluke for a quote.

How to Contact Fluke

To contact Fluke, call one of the following telephone numbers:

USA: 1-888-99-FLUKE (1-888-993-5853)

Canada: 1-800-36-FLUKE (1-800-363-5853)

Europe: 31-402-678-200

Japan: 81-3-3434-0181

Singapore: 65-738-5655

Anywhere in the world: +1-425-446-5500

Or visit Fluke's Web site at www.fluke.com.

Specifications

Signal Connection: Fluke custom serial connector

Operating Power: Provided by the 660 Series Frame Relay Installation Assistant

Operating Temperature: 0 °C to 50 °C (32 °F to 122 °F)

Certifications: CE, CAN/CSA C22.2 No. 950-95, UL 1950 Third Edition, ANSI/UL 1950-1997, IEC Standard: EN 61326

Dimensions: L: 7.6 cm (3.0 in)
W: 11.7 cm (4.6 in)
D: 4.8 cm (1.9 in)

Weight: 162 g (5.7 oz)

LIMITED WARRANTY & LIMITATION OF LIABILITY

This Fluke product will be free from defects in material and workmanship for one year from the date of purchase. This warranty does not cover damage from accident, neglect, misuse or abnormal conditions of operation or handling. Resellers are not authorized to extend any other warranty on Fluke's behalf. To obtain service during the warranty period, send your defective product to the nearest Fluke Authorized Service Center with a description of the problem.

THIS WARRANTY IS YOUR ONLY REMEDY. NO OTHER WARRANTIES, SUCH AS FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSED OR IMPLIED. FLUKE IS NOT LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, ARISING FROM ANY CAUSE OR THEORY. Since some states or countries do not allow the exclusion or limitation of an implied warranty or of incidental or consequential damages, this limitation of liability may not apply to you.

Fluke Corporation
PO Box 9090
Everett WA 98206-9090
U.S.A.

Fluke Europe B.V.
PO Box 1186
5602 BD, Eindhoven
The Netherlands