Multiplexer with RS232 or fiber optic input, for fiber optic communication with up to 24 devices.

FAC 1000/2000

Fiber Optic Multiplexer

DESCRIPTION

The FAC 1000/2000 is a multiplexer oriented to multi-point communication with several devices using fiber optic. It provides one or two inputs and multiple outputs.

The input can be of one of the following types: RS232, plastic or glass fiber optic.

The outputs can be of two types: plastic or glass fiber optic.

FAC models are available with 6, 12, 18, or 24 plastic fiber optic outputs, and 4, 8, 12 or 16 glass fiber optic outputs.

The equipment connected to the FAC1000/2000 use a full-duplex communication.

APPLICATION

The versatility of this equipment allows its connection with a wide range of devices: computers, protection and control equipment, communications equipment...

The FAC provides Data Broadcasting communication. Using a FAC1000/2000, one equipment can transmit data simultaneously to N different devices connected to the outputs. In the same way, any of the equipment connected to an output can communicate with the main equipment.

FAC1000/2000 provides redundancy to the system. Should one of the input fail, the unit will continue to maintain communication via the second port.

An example of application is the connection between a computer and several digital protection and control equipment. This way of connection provides galvanic isolation between all the equipment, avoiding the noise in the line.

The FAC1000/2000 can also be used as physical media converter, allowing the interconnection between heterogeneous devices: RS232 to glass or plastic fiber optic, glass fiber optic to plastic fiber optic.

FAC TECHNICAL SPECIFICATIONS

POWER SUPPLY

Model G:	48-125 VDC/VAC
Model H:	110-240 VDC/110-220 VAC
Consumption:	Less than 1 W (model with 6 plastic fiber optic links)

OUTPUTS

ISOLATION
Between each terminal and chassis 2000 VAC during 1 min.

COMMUNICATIONS

FIBER OPTIC TYPES

Plastic:	1mm
Glass:	50/125 - 62.5/125-100/140-200 PCS

DISTANCE	RECOMMENDED LINK TYPE
Up to 15 m:	RS232
	Plastic F.O.
	Glass F.O.
15 m to 80 m:	Plastic F.O.
	Glass F.O.
80 m to 1 km:	Glass F.O.

Note: The most used types of glass fiber optics are 50/125 and 62.5/125. There are no significant differences between them.

ENVIRONMENTAL

Temperature Range:		
	Operation:	-5ºC to +55ºC
	Storage:	-10ºC to +65ºC
Humidity:		Up to 95% without condensing

TYPE TESTS

Dielectric:	IEC-255-5 (except for RS232)
Radiointerferences:	IEC 801-3
Fast Transients:	IEC 801-4

*Specifications subject to change without notice.

Application

■ Multiplexer RS232 or f.o. with up to 24 outputs

Features

■ Plastic fiber optic outputs: 6, 12, 18 or 24
■ Glass fiber optic outputs: 4, 6, 12 or 16
■ 50/125, 62.5/125 or 100/140 µm fibers
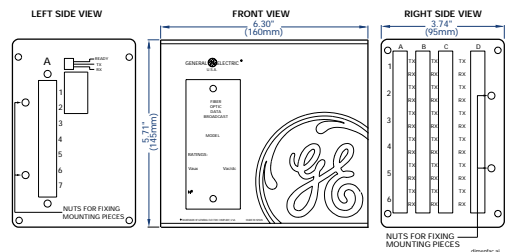■ 48/125 or 110/250 VAC/VDC auxiliary voltage

ORDERING

To order select the basic model and the desired features from the Selection Guide below.

FAC*000A*000**

			Basic unit
1			One input
2			Two inputs
	0		6 1 mm plastic fiber optic outputs
	1		12 1 mm plastic fiber optic outputs
	2		18 1 mm plastic fiber optic outputs
	3		24 1 mm plastic fiber optic outputs
	4		4 50/125 glass fiber optic outputs
	5		8 50/125 glass fiber optic outputs
	6		12 50/125 glass fiber optic outputs
	7		16 50/125 glass fiber optic outputs
		0	RS232 input
		1	1 mm plastic fiber optic input
		2	100/140 or 200 PCS glass fiber optic
		3	50/125 or 62.5/125 glass fiber optic
		G	48 - 125 VAC/VDC aux. voltage
		H	110 - 250 VAC/VDC aux. voltage

DIMENSIONS

GE Power Management