

F6816



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EXTERNAL INPUT/OUTPUT UNIT

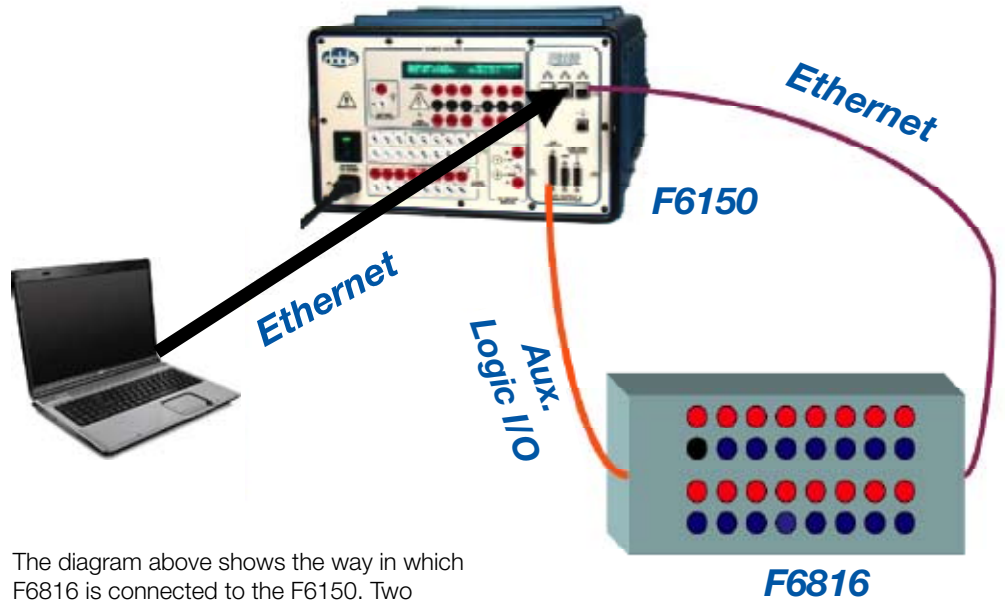
The Doble F6816 External Input/Output unit is designed to work as an extension of the inputs and outputs that are provided on F6150. The user can utilize this add-on external unit to access 8 additional inputs and 8 additional outputs.

The access to a total of 16 inputs and 16 outputs will allow monitoring and controlling of a large number of relay contacts. This will prove beneficial in elaborate end-to-end tests and dynamic testing of protection schemes.

The F6816 is a self contained unit containing the 16 contacts. These additional contacts are available to the user when using either Doble's ProTesT or the F6TesT software.



F6816: External Connections



The diagram above shows the way in which F6816 is connected to the F6150. Two connections are required as shown above. The connection via Ethernet (RJ45) is for setting up the configuration of the contacts while the Logic Input/Output cable is used for carrying low level signals from the F6150 to the F6816. In addition, the F6816 has a DB9 serial port which is supplied for communicating with

F6816 via Hyper Terminal program. This communication via Hyper Terminal program is required for maintenance purposes such as changing IP/Subnet address of the F6816, etc. The F6816 also requires a 120/240 V supply.

F6816 Technical Specifications

8 Output Contacts:

4 are high speed electronic switches

- Input voltage 250V dc or ac
- Switching current 0.5 A make or break maximum
- Response time 0.1 millisecond maximum pickup and drop out
- Isolation +/- 500V peak

4 are relay outputs

- Breaking capacity AC 2000 VA with maximum 250 V and I_{max} 8A
- Breaking capacity DC: 50 watts with V_{max} 300V and I_{max} 8A
- Response time 10 milliseconds maximum pickup and dropout.
- Isolation +/- 500V peak

Weight:

8.6 lbs (3.9 kg)

Demensions:

14.2 x 11.4 x 6.5 in
36.1 x 29 x 16.5 cm

Host Firmware Requirement:

F6150 must have firmware version 4.28 or higher installed

Host Equipment Compatibility:

F6150 can interface with F6816

Specifications are subject to change without notice.

8 Input Contacts:

- All 8 input contacts are isolated and are configurable as either voltage or contact sense
- Voltage sense up to 250 V ac or dc
- Open circuit test voltage 12V dc nominal
- Short circuit test current 20 mA dc nominal
- Response time 0.1 millisecond maximum pickup and dropout
- Isolation +/- 500V peak
- All 8 input contacts are classified as First Strike which means that these contacts will detect an input pulse as narrow as 10 microseconds.

