

DSP-FTA420/30/40

Users Manual

Specifications

General Specifications



Power supply: ± 6 V supplied by the DSP-4000 test tool.

Temperature range: Operating: 0 °C to +40 °C; Storage: -10 °C to +60 °C

Warm-up time: 5 minutes

Humidity range: Operating: 0 % to 75 % RH, non-condensing

Storage: 0 % to 95 % RH, non-condensing

Certifications:  

Dimensions: 3.3" x 4.6" x 1.9" (8.3 cm x 11.6 cm x 4.7 cm)

Weight: 7.6 oz (215 g)

Optical Transmitter

Connector: SC, multimode

Emitter type:

FTA420 - Multimode LED

FTA430 - Singlemode laser

FTA440 - 850 nm Vertical Cavity Surface Emitting Laser (VCSEL);

1310 nm FP laser

Wavelengths:

FTA420 - 850 nm and 1300 nm

FTA430 - 1310 nm and 1550 nm

FTA 440 - 850nm and 1310 nm

Power output:

FTA420 -20 dBm (10 μ W), typical (into 62.5/125 μ m fiber)

FTA430 and FTA440 -10 dBm

Power output stability (8 hours): ± 0.25 dB at 23 °C

**Fiber Test Adapter
Specifications**

Optical Receiver

Power measurement accuracy: ± 0.25 dBm at 23 °C, 45 % RH to 75 % RH, -20 dBm for 850 nm and 1300 nm, -10 dBm for 1550 and 1625 nm

Connector: SC, multimode or singlemode

Detector type: InGaAs

Calibrated wavelengths: 850 nm, 1300 nm, 1310 nm, 1550 and 1625 nm.

Power measurement range: +3 dBm to -50 dBm

Power measurement linearity: ± 0.25 dB at 23 °C

Length Measurement:

Measured in Loopback Mode with included SC/ST patch cables and one pair of ST/ST adapters.

FTA420 - 5000 meters of 62.5 μ m multimode cable

FTA430 - 10000 meters of singlemode cable

FTA440 - 5000 meters of 50.0 μ m multimode cable

Length measurement accuracy: ± 1.5 m plus 2 % of length

Fiber Test Adapter
Replacement Parts and Accessories

Table 9. Replacement Parts and Accessories

Description	Fluke Part Number or Model Number
SC/ST patch cord, multimode, 62.5 μm	FOC-ST/SC
ST/ST patch cord, multimode, 62.5 μm	NF230
SC/ST patch cord, multimode, 50.0 μm	NF500
ST/ST patch cord, multimode, 50.0 μm	NF510
SC/ST patch cord, singlemode	NF110SM
ST/ST patch cord, singlemode	NF101SM
ST/ST adapter	NF300SM
SC/SC adapter	NF310SM
Dust cap for the SC connector on the DSP-FTA4XX Fiber Test Adapter	669991
LC Accessory Kit, 62.5 μm , multimode	NFK1-LC
MT-RJ Accessory Kit, 62.5 μm , multimode	NFK1-MTRJ
VF-45 Accessory Kit, 62.5 μm , multimode	NFK1-VF45
Fiber Jack Accessory Kit, 62.5 μm , multimode	NFK1-FJ
850/1300 Multimode Fiber Optic Source	FS-150
LS-1310/1550 Singlemode Laser Source	LS-1310/1550
FOS-850/1300 Multimode Fiber Optic Source	FOS-850/1300
<i>DSP-FTA420/30/40 Users Manual, English</i>	1570398
<i>DSP-FTA420/30/40 Users Manual, French</i>	1570405
<i>DSP-FTA420/30/40 Users Manual, Spanish</i>	1570431
<i>DSP-FTA420/30/40 Users Manual, Italian</i>	1570410
<i>DSP-FTA420/30/40 Users Manual, German</i>	1570422
<i>DSP-FTA420/30/40 Users Manual, Portuguese</i>	1570446
<i>DSP-FTA420/30/40 Users Manual, Simplified Chinese</i>	1570468
<i>DSP-FTA420/30/40 Users Manual, Japanese</i>	1570454