

**Aumictech**

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Data Sheet

August 2, 2026

FUJIKURA

Fujikura FSM-17S SM MM Fiber Optic Fusion Splicer

The Fujikura FSM-17S is a compact and reliable fusion splicer for single-mode and multimode fibers. It features a user-friendly interface, fast splicing time, and automatic arc calibration. Ideal for field and lab use, it ensures high-quality splices with minimal loss, enhancing network performance and reliability.



MODEL

Fujikura FSM-17S

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FSM-17S

LISTING

<https://aumictechlabs.com/products/fsm-17s-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fujikura FSM-17S is a single-fiber fusion splicer for both single-mode and multimode optical fibers. It delivers low-loss splices in approximately 9 seconds with automated fiber alignment, 180x magnification viewing, and integrated heating in a compact, field-deployable package. Operating from -10°C to +50°C and capable of 120 splice-heat cycles per charge, the FSM-17S supports SM, MM, DSF, and NZDSF fibers with cladding diameters from 80 to 150 µm. Technical Specifications Splicing Performance Applicable fibers: Single-mode (SMF), multimode (MMF), dispersion-shifted (DSF), and NZDSF Cladding diameter range: 80–150 µm Coating diameter range: 100 µm–1000 µm Typical splice loss: SMF < 0.05 dB, MMF < 0.02 dB, NZDSF < 0.05 dB Splice time (typical SMF FAST mode): ~9 seconds Protection sleeves: 40 mm, 60 mm Heating

time (60 mm sleeve): ~25 seconds Optical System Microscope magnification: 180x (simultaneous dual-fiber axis viewing) Display: 3.5-inch color LCD Alignment method: Profile Alignment System (PAS) Power & Battery Supply: AC adapter or internal lithium-ion battery Capacity: ~120 splice and heat cycles per full charge Charge time: ~2.5 hours Environmental Operating temperature: -10°C to +50°C Humidity: 0–95% RH (non-condensing) Maximum altitude: 3000 m Wind protection: Up to 15 m/s Physical Dimensions: 130 mm × 150 mm × 115 mm Weight: ~2.0 kg (battery and accessories excluded) Key Features Automated Profile Alignment System for consistent splice quality Dual-axis 180x magnification for precise fiber positioning USB interface for data logging, retrieval, and firmware updates Internal memory for splice history and performance metrics Ruggedized construction designed for field and laboratory operation Typical Applications Telecommunications network deployment and maintenance Data center fiber interconnects Fiber-to-the-home (FTTH) installations Field splicing of standard and specialty optical fibers Compatibility & Integration The FSM-17S accommodates standard SMF and MMF fibers. Standard accessories include fiber cleaver (CT-30), stripper, charger, spare electrode set, and carrying case.

Features & description

From manufacturer datasheet

Features

- Fixed V-groove cladding alignment • Dual-directional operation • Arc calibration-free system • Slot-in BTR-06(S)/(L) battery • 5.6-inch color LCD; dual CMOS cameras • Typical 11 s SM splice; 35 s FP-03 heat • Wind protection to 15 m/s • USB and RCA NTSC video out • FSM-17S-FH fiber-holder variant available

FSM17S Characteristics / Specifications

PARAMETER	VALUE
Model	FSM-17S (clamp) / FSM-17S-FH (holder)
Manufacturer	Fujikura / AFL
Instrument Type	Single-fiber cladding-alignment fusion splicer
Applicable Fibers	SM (G.652), MM (G.651), DS (G.653), NZDS (G.655)
Fiber Count	Single
Cladding Diameter	125 um
Coating Diameter	FSM-17S 250-1000 um; FSM-17S-FH via FH-50-250 / FH-50-900
Cleave Length	FSM-17S 8-16 mm (250 um or less); 16 mm for thicker coatings; FH model 10 mm
Typical Average Splice Loss	0.05 dB SM; 0.02 dB MM; 0.08 dB DS; 0.08 dB NZDS (cut-back, ITU-T/IEC)
Splicing Time	typically 11 s with standard SM
Return Loss	greater than 60 dB
Splicing Modes	40 user programmable + factory reference modes
Storage	last 2000 results
Magnification	316X single X/Y; 158X simultaneous
Display	two CMOS cameras; 5.6-inch color LCD
Operating	0-5000 m; 0-95% RH; -10 to 50 C
Proof Test	2 N
Tube Heater	10 heating modes (+ reference); typically 35 s FP-03
Sleeves	60 mm and 40 mm
Battery Cycles	typically 80 with BTR-06(S); 160 with BTR-06(L)
Power	100-240 VAC or 10-15 V DC with ADC-11; 13.2 V with BTR-06
Wind Protection	max 15 m/s
Dimensions	150 × 150 × 150 mm
Weight	2.1 kg (2.6 kg with ADC-11)

PARAMETER	VALUE
Terminals	USB 1.1; RCA NTSC video Standard Operating Conditions Select clamp vs FH model holders correctly. Charge BTR-06 with ADC-11 and DCC-10. Clean V-grooves. Observe electrode intervals. Operational Notes Confirm FSM-17S vs FSM-17S-FH on the unit. Related mass sibling is FSM-17R (up to 4-fiber ribbon).

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Operational Notes

Confirm FSM-17S vs FSM-17S-FH on the unit. Related mass sibling is FSM-17R (up to 4-fiber ribbon).

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.