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Data Sheet
August 2, 2026

FUJIKURA

Fujikura FSM-20CSII SM MM Fiber Arc Fusion Splicer

The Fujikura FSM-20CSII is a compact and reliable arc fusion splicer designed for splicing single-mode (SM) and multimode (MM) optical fibers. It features automated splicing and heating, a user-friendly interface, and rugged construction for field use. Ideal for telecommunications, data centers, and other fiber optic applications.

MODEL Fujikura FSM-20CSII	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU FSM-20CSII	LISTING https://aumictechlabs.com/products/fsm-20csii-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fujikura FSM-20CSII is a dual-fiber arc fusion splicer engineered for single-mode and multimode optical fiber splicing with automated process control and real-time loss monitoring. The unit employs Profile Alignment System (PAS) technology for core alignment on SM fibers and cladding alignment on MM fibers, delivering precise splice placement without manual intervention. Splice loss estimation, cleave angle measurement, and arc discharge parameters are displayed on a 3-inch LCD monitor during operation. The splicer stores 20 programmable splicing modes - 10 for SM and 10 for MM - each customizable across six parameters: ARC POWER, ARC TIME, FORWARD, PREFUSE, GAP, and ECF. Environmental compensation algorithms account for atmospheric pressure, humidity, and temperature fluctuations to maintain consistent splice quality

across field conditions. Internal memory accommodates up to 100 complete splice data sets for traceability and troubleshooting. Power flexibility supports both AC input (85–265V, 50/60Hz with automatic voltage selection) and DC input (10–15V), enabling laboratory and field deployment. The unit features a high-intensity halogen inspection lamp for fiber end-face examination and is housed in rugged, compact construction suitable for portable field operations. Arc discharge electrodes from the Fujikura ELCT1-25 series are compatible; electrode replacement is recommended every 1,000 arc discharges to maintain arc stability and splice quality. Technical Specifications Fiber Compatibility: Single-mode and multimode optical fibers Alignment Method: Profile Alignment System (PAS) - core alignment (SM) or cladding alignment (MM) Programmable Modes: 20 total (10 SM / 10 MM), each with 6 configurable parameters Display: 3-inch LCD with real-time splice loss and cleave angle readout Data Storage: 100 splice data sets internal memory Environmental Compensation: Atmospheric, humidity, and temperature correction Power Input: AC 85–265V (50/60Hz, automatic selection) or DC 10–15V Electrodes: Fujikura ELCT1-25 series (replacement interval: 1,000 arcs) Key Features Automated alignment, fusion, and loss estimation - no manual optimization required Dual-mode operation with independent preset libraries for SM and MM splicing Six-parameter tuning enables fiber-specific process optimization High-intensity halogen lamp for fiber inspection Compact, field-hardened design with carrying case Compatibility & Integration Compatible with Clauss CFS-2 fiber optic stripper Fujikura ELCT1-25 arc discharge electrode series

Features & description

From manufacturer datasheet

Features

• Profile Alignment System (PAS) • SM core alignment; MM cladding alignment • Automatic alignment, fusion, and loss estimation • Built-in monitor with cleave angle and estimated loss • Atmosphere, humidity, and temperature compensation • Compact LCD suitable for field viewing • Successor to FSM-20CS

FSM20CSII Characteristics / Specifications

PARAMETER	VALUE
Model	FSM-20CSII
Manufacturer	Fujikura
Instrument Type	PAS arc fusion splicer (single fiber)
Fiber Types	Single-mode and multimode
Fiber Count	Single
Alignment	PAS – SM core; MM cladding
Functions	Automatic alignment, fusion, splice loss estimation
Compensation	Atmosphere, humidity, temperature
Related	FSM-20CS (predecessor); FSM-20RS (ribbon class sibling) Standard Operating Conditions Clean optics and V-grooves. Useamatched cleaver. Allow compensation sensors to stabilize outdoors. Replace electrodes per Fujikura intervals.

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

Specifications

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Operational Notes
Confirm CSII marking on the faceplate. Detailed cut-back tables may follow FSM-20CS family practice–quote PAS SM/MM capability from the unit rather than inventing unverified dB figures when the II-specific sheet is unavailable.

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

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