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Data Sheet
August 2, 2026

FUJIKURA

Fujikura FSM-20PM Polarization Maintaining Fiber Fusion Splicer

The Fujikura FSM-20PM is an arc fusion splicer engineered for precision splicing of polarization-maintaining (PM) fibers alongside standard single-mode (SM) and multi-mode (MM) fibers. Advanced image processing and internal microprocessor automation handle fiber gap setting and core/cladding alignment to achieve low splice loss. The splicer operates on AC100–240V, 50–60Hz or DC10–12V and includes automatic arc calibration in AUTO modes for enhanced performance across multiple fiber types. Applicable Fiber Types: Polarization Maintaining (PM), Single-Mode (SM), Multi-Mode (MM) Standard Accessories: Carrying case, 400 µm fiber holders (left and right), power supply, fiber stripper, oven sleeves, Fujikura CT-100B optical cleaver Aumictech offers NIST-traceable calibration and repair for the Fujikura FSM-20PM. Calibration covers arc calibration (arc power and duration), V-groove alignment

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

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

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core/cladding alignment to achieve low splice loss. The splicer operates on AC100–240V, 50–60Hz or DC10–12V and includes automatic arc calibration in AUTO modes for enhanced performance across multiple fiber types. Technical Specifications Applicable Fiber Types: Polarization Maintaining (PM), Single-Mode (SM), Multi-Mode (MM) Splice Modes: SM (ITU-T G652), NZ (ITU-T G655), DS (ITU-T G653), MM (ITU-T G651) Alignment Method: Core/cladding alignment via image processing Fusion Method: Arc discharge with automated gap setting Arc Calibration: Automatic calibration available in AUTO modes Power Input: AC100–240V, 50–60Hz; DC10–12V Standard Accessories: Carrying case, 400 µm fiber holders (left and right), power supply, fiber stripper, oven sleeves, Fujikura CT-100B optical cleaver Key Features Automated core/cladding alignment eliminates manual positioning variability Single platform handles PM, SM, and MM fibers without hardware reconfiguration Electrode pairs operate as matched sets for consistent arc discharge quality Three-prong grounding required via supplied AC power cord Safety glasses mandatory during operation due to fiber fragment generation Typical Applications Telecommunications infrastructure requiring polarization-state preservation Research environments where PM fiber interconnection is critical Aerospace systems demanding high splice reliability and low loss Compatibility & Integration The FSM-20PM accepts PM fibers per standard specifications alongside conventional SM and MM fibers. Controller interfaces include dedicated AC and DC power cords plus control signaling. Instruction manual covers all safety protocols and operational procedures prior to commissioning.

Features & description

From manufacturer datasheet

Features

• Designed for polarization-maintaining (PM) fiber • Also splices SM and MM fiber • Automatic gap setting, alignment, and fusion via image processing • Microprocessor-controlled operation • Compact FSM-20 family chassis • Related revisions: FSM-20PMII, FSM-20PMI Technical Specifications

FSM20PM Characteristics / Specifications

PARAMETER	VALUE
Model	FSM-20PM
Manufacturer	Fujikura
Instrument Type	Polarization-maintaining / specialty arc fusion splicer
Applicable Fibers	PM, SM, MM
Fiber Count	Single
Alignment	Image-processing automatic core/cladding alignment for PM/SM/MM
Operation	Automatic gap, align, splice
Related	FSM-20PMII (type-T); FSM-20PM I (dealer revision listing) Standard Operating Conditions Use PM-capable holders/clamps and observe stress-axis orientation for PM fiber. Clean cameras and V-grooves. Confirm PM program and extinction/crosstalk expectations from the unit manual–do not invent unverified crosstalk dB without OEM tables for this exact revision.
Related revisions	FSM-20PMII, FSM-20PMI Technical Specifications

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

PARAMETER	VALUE
Model	FSM-20PM
Manufacturer	Fujikura
Instrument Type	Polarization-maintaining / specialty arc fusion splicer
Applicable Fibers	PM, SM, MM
Fiber Count	Single
Alignment	Image-processing automatic core/cladding alignment for PM/SM/MM
Operation	Automatic gap, align, splice
Related	FSM-20PMII (type-T); FSM-20PM I (dealer revision listing)

Standard Operating Conditions
Use PM-capable holders/clamps and observe stress-axis orientation for PM fiber. Clean cameras and V-grooves. Confirm PM program and extinction/crosstalk expectations from the unit manual—do not invent unverified crosstalk dB without OEM tables for this exact revision.

Operational Notes
Confirm faceplate FSM-20PM vs FSM-20PMII vs FSM-20PM I. Detailed published crosstalk tables are more complete for later FSM-100P specialty platforms than for FSM-20PM.

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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