

DATA SHEET

Optical Fiber Arc Fusion Splicer $FSM ext{-}45F$



The FSM-45F is designed for splicing of single optical fibers for factory use.

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The FSM-45F has PAS (Profile Alignment System) technology for core-to-core fiber Some unique functions are alignment. available, which enable splicing of various fibers such as dissimilar fiber, large diameter fiber, attenuation splicing and short cleaved length splicing.

The fiber holder system, which is exclusively designed for FSM-45F, provides easy handling of fiber during a series of splicing processes.

Features:

- 1. Core-to-core fiber alignment system with PAS technology.
- 2. V- groove Driving System for various kinds of splicing work.
- 3. Short cleaved length splicing capability.
- 4. Splice loss estimation function.
- 5. Sweep arc function for various kinds of dissimilar fiber splicing.
- 6. Power monitor feedback alignment capability with GP-IB interface.
- 7. USB terminal and serial port for PC communication.
- 8. Universal Fiber Clamp for the fiber with the diameter of 80µm to 400µm

SPECIFICATIONS			
Applicable fibers	SM, MM, NZDS, DS, Large diameter fiber, Reduced cladding fiber		
Fiber count	Single		
Cladding diameter	80μm to 400μm		
Coating diameter	100μm to 1,000μm		
Fiber cleaved length	8mm to 10mm (standard)		
	3mm to 5mm (short cleaved length)		
Actual average splice loss	0.02dB with SM, 0.01dB with MM, 0.04dB with DS (with bare fiber clamping)		
Splice time	20sec with SM		
Return loss	>>60dB		
Splicing modes	40 user programmeble modes and		
	120 database area (factory predetermined setting)		
Splice loss estimate	Available		
Attenuation splice function	0.1dB to 25dB		
Storage of splice result	The last 1,200 splices to be stored in the internal memory		
Fiber display	X/Y, or X and Y simultaneously		
Magnification	270x for single X or Y view, or 135x for X and Y view		
Viewing method	Two CCD cameras and 5 inch TFT color LCD monitor		
Operating condition	0 to 3,500m above sea level		
	0 to 95%RH and 0 to 40 degree C respectively		
Mechanical proof test	2.45N		
Tube heater	Built-in tube heater with 10 heating modes and 20 database area		
Tube heat time	Typical 100sec with FP-03 protection sleeve		
	Typical 70sec with series of micro sleeves		
Applicable protection sleeve length	60mm, 40mm, and a series of micro sleeves		
Power supply	Auto voltage selection from 100 to 240Va.c. with ADC-10		
	USB 1.1 (type B) and RS232C for PC communication		
	GP-IB port for power monitor feedback alignment		
Mr. I a c	Video terminal RCA video jack / NTSC		
Wind protection	Max. wind velocity of 5m/s.		
Dimensions	311W x 218D x 234H (mm) in operation		
Weight	5.5kg without AC adapter		

STANDARD PACKAGE	
Arc fusion splicer	FSM-45F
Fiber holder	FH-40-250
	FH-40-400
Fiber clamp	CLAMP-45-125
	CLAMP-45-250
	CLAMP-45-400
	CLAMP-45-80/400
AC adapter	ADC-10
AC power cord	ACC-08~12
Carrying case	CC-05-45F
with Z unit fixture	ZFIX-01
Spare electrode	ELCT1-25
Hexagonal wrench	HEX-01
Top plate rubber cap	CAP-01
Transfer holder	-
DC inlet cover	-
Instruction manual	-

OPTIONAL ITEMS		
Fiber holder	FH-40-xxx	FH-40-100,125,150,180,210,250
		300,350,400,500,600,700
		800,900
	FH-40-LT900	for loose tube fiber
Fiber clamp	CLAMP-45-xxx	CLAMP-45-080,100,125,150,180
		250,400,500,600,900
Fiber cleaver	CT-32	for 125µm cladding fiber
	CT-38	for 80µm cladding fiber
Cleaver spacer	SPA-40-CT-040	for 9mm cleave length
	SPA-40-CT-050	for 10mm cleave length
Thermal jacket stripper	HJS-02	for 125µm cladding fiber
	HJS-02-80	for 80µm cladding fiber
Jacket stripper	JS-02-900	for 900μm jacketing
Stripper spacer	SPA-40-HJS030	for short cleave length
External controller	CO-01	

Note 1) Specifications and descriptions are subject to change without prior notice.

Note 2) The export of FSM-45F is controlled under Foreign Exchange and Foreign Trade Law of Japan. Therefore, your order shall be subject to the approval of the Japanese Government.

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