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Optical Multimeter Expansion frame
AQ2141

General

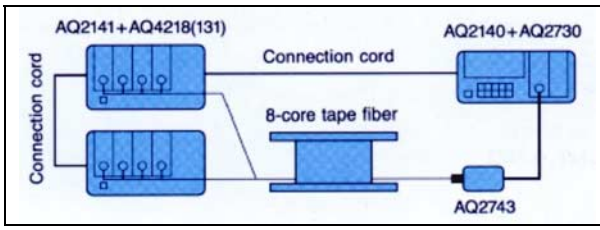
This Frame expands the AQ2140 optical multimeter to support external units.
It can mount up to four channels for the AQ2140 optical multimeter, including sensor units, OPM units or light source units.

Features

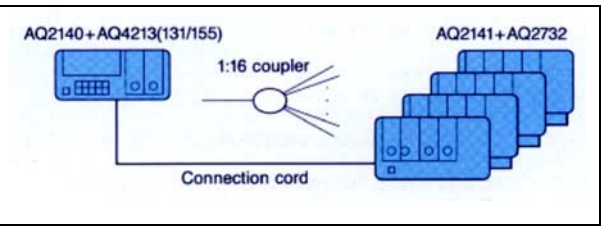
●A single AQ2140 optical multimeter can be connected to up to four AQ2141 optical multimeter expansion frames, providing an increase of up to 16 external channels.
●The AQ2141 can also be used as a multi-channel light source by itself
(Does not support ATT function or 1 kHz or 2 kHz chopped light).

Application Example

●Loss measurement for an 8-core tape fiber
The AQ2140 optical multimeter is connected to two AQ2141 optical multimeter expansion frames to provide it with four light source channels each, for a total of eight channels.



●Branching ratio for 16-core coupler
Four AQ2141 optical multimeter expansion units are connected to the AQ2140 optical multimeter. Each is mounted with four sensor unit channels, providing a total of 16 channels.



AQ2141 optical Multimeter Expansion Frame

Specifications

No. of units	Max. 4 channels		
No. of channels	Max 16 (four AQ2141 ❶ units connected to one AQ2140		
Supported units ❷	Sensors ❸		Light sources
	Sensor units	OPM units	Light source units ❹
Manual operation ❺	All units use common settings (λ , AVG, DREF) ❻		Individual unit settings
GP-IB operation ❼	Individual unit setting supported		
Interface	Dedicated serial interface		
Power Supply	AC 100 to 240 V, 48 to 63 Hz, approx. 60 VA		
Environmental conditions	Operating temperature; 0 t 50°C, Storage temperature; -25 to 70°C, Humidity; 85% or less		
Dimensions and mass	Approx. 212(W) × 133(H) × 350(D) mm Approx. 3.5kg		
Accessories	Power cord: 1, Connection code: 1, Instruction manual: 1		

Notes:

❶ Older AQ2140 models may require a factory update to software.

❷Optical return loss measurement units are supported.

❸Sensor and OPM (sensor) units should all be of the same type. Older sensor and OPM units may require factory updates to software. Please consult the manufacturer or your vendor for information on software versions.

❹Light sources may be freely mixed.

❺Sensor and OPM units mounted in the AQ2141 may be used via connection to the AQ2140.

❻Individual unit keys (CW/CHOP, ZERO) may be set for each unit.

❼Requires usage with AQ2140.

Supported units

Either of matched sensor type or light source type should be used in mounted unit.
And the mount of same sensor units or same sensors realizes correct operation. Light source units may be freely mixed.

Application	Product name	Model	Notes
Sensors	Sensor unit	AQ2731	Requires AQ9335(*) connector adapter (option)
		AQ2732/2733/2734/2735	AQ9389B connector adapter (FC) incuded
	OPM unit+ sensor	AQ2730 + AQ2741	Can also be used with AQ9335(*) connector adapter (option)
		AQ2730 + AQ2742	
		AQ2730 + AQ2743	
Light sources	LED unit	AQ4215(085)/4215(131)/4215(155)	Requires AQ9433(*) connector adapter (option)
		AQ4218(13)/4218(155)	
	EE-LED unit	AQ4221(131)/4221(155)	Requires AQ9434(*) universal adapter (option)
	LD unit	AQ4211(131)/4211(155)/4211(165)	
		AQ4212(130)	
		AQ4213(131/155)	
	DFB-LD unit	AQ4214(131)/4214(155)	Requires fiber cord with SC/APC connector

Note: * indicates connector type, which may be FC, SC, ST, DIN or HMS-10/A.

Specifications are subject to change without notice.

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