Option

Product name	Model	Contents	Note		
Optical Multimeter Expansion Frame	AQ2141	One of the sensors (sensor unit, OPM unit) or light sources (light source units) has 4 channels per unit, Max. 16 channels connectable. (4 units of AQ2141 are connectable to AQ2140.)			
PM Unit	AQ2730	For AQ2741/2742/2743 Sensors			
	AQ2731	400 to 1100nm, –93 to +3dBm, for optical fiber emission	Also select AQ9335 (*) Connector Adapter (option). (*: Requires FC, SC, ST, DIN, or HMS-10/A connector.)		
opoor I Init	AQ2732	700 to 1700nm, –73 to +10dBm, for optical fiber emission			
Sensor Unit AQ2733 AQ2734		700 to 1700nm, –93 to +10dBm, for optical fiber emission	AQ9389B Connector Adapter (FC): Accessory.		
		900 to 1870nm, –83 to +3dBm, for optical fiber emission			
	AQ2735	700 to 1700nm, -73 to +27dBm, for optical fiber emission			
	AQ2741 400 to 1100nm, -73 to +10dBm, for large-diameter fiber emission/free-space beam		Also select AQ9335 (*) Connector		
ensor	AQ2742	750 to 1800nm, –53 to +10dBm, for large-diameter fiber emission/free-space beam	Adapter (option). (*: Requires FC, SC, ST, DIN or HMS-		
	AQ2743	750 to 1800nm, –73 to +10dBm, for large-diameter fiber emission/free-space beam	10/A connector.)		
	AQ7310	1280 to 1600nm, applicable fiber: SM (10/125µm)	Also select master cord for AQ7310 (*) (option) (*: FC, SC, open)		
optical Return Loss Measuring Unit	AQ7315	1270 to 1330nm, applicable fiber: GI (50/125µm)	Also select master cord for AQ7315 (*) (option) (*: FC, SC, open)		
	AQ7316	1280 to 1340nm, applicable fiber: GI (62.5/125µm)	Also select master cord for AQ7316 (*) (option) (*: FC, SC, open)		
	AQ9335 (*)	For AQ2731 Sensor Unit, AQ2741/2742/2743 Sensors			
onnector Adapter	AQ9433 (*)	For AQ4215 LED Unit			
	AQ9438 (FC)	High return loss adapter, for AQ2732/2733/2734/2735 Sensor Units			
lare Fiber Adapter	AQ9302 () AQ9339 ()	For connecting optical fiber core cord and AQ2741/2742/2743 Sensors	(): Cord diameter. For diameter of fibers, please consult your vendor or our sales offices.		
Adapter	AQ9340	For connecting AQ2741/2742/2743 Sensors and AQ9339 () Bare Fiber Adapter	Be sure to purchase this when you purchase AQ9339 for the first time.		
Iniversal Adapter	AQ9434 (*)	For AQ4218 LED Unit, AQ4221/4222 EE-LED Units, AQ4211/4212/4213 LD Units, AQ4310 ASE Unit			
ape Fiber Adapter	AQ9436	For 2/4/8 core tape fiber core code adapter, AQ2742/2743 Sensors	Exclusive use for relative value measurement of CHOP light.		
IT Connector Adapter	AQ9440	For 2/4/8 MT Connector Adapter, AQ2741/2742/2743 Sensors			
iber Cord vith SPC Connector		One end (*), one end (*) (length :2m standard), for LD Unit, ASE Unit	*: Requires FC/SPC, SC/SPC or ST/SPC.		
iber Cord rith SC/APC Connector		One end SC/APC, one end (*) (length: 2m standard), for AQ4214DFB-LD Unit, AQ4224 WDM LD Unit	*: Requires FC/SPC, SC/SPC ST/SPC, SC/APC or open.		
Master Cord for AQ7310 FC, SC, open)		Used with AQ7310 Optical Return Loss Measuring Unit One end SC/APC, one end high-reflectance attenuation FC master cord (return loss 50dB or more, length: 1m) One end SC/APC, one end high-reflectance attenuation SC master cord (return loss 50dB or more, length: 1m) One end SC/APC, one end open (length: 2m)			
Master Cord for AQ7315 FC, SC, open)		Used with AQ7315 Optical Return Loss Measuring Unit One end SC/APC, one end FC master cord (length: 1m) One end SC/APC, one end SC master cord (length: 1m) One end SC/APC, one end open (length: 2m)			
Master Cord for AQ7316 FC, SC, open)		Used with AQ7316 Optical Return Loss Measuring Unit One end SC/APC, one end FC master cord (length: 1m) One end SC/APC, one end SC master cord (length: 1m) One end SC/APC, one end open (length: 2m)			
Optical Reflector	AQ9316C (*)	Used with AQ7310 Optical Return Loss Measuring Unit One end FC master, one end reflector One end SC master, one end reflector	Necessary when measured at total reflection reference. (*: Requires FC or SC.)		
optical Reflector Or AQ7315		Used with AQ7315 Optical Return Loss Measuring Unit One end FC master, one end reflector	Also compatible with one end SC master, on		
Optical Reflector or AQ7316		Used with AQ7316 Optical Return Loss Measuring Unit One end FC master, one end reflector	end reflector.		
arrying Case	AZ8114	Storage case: Main frame (1), units (2), sensors (2), connector adapters (4), universal adapter (1), power cord (1), fiber cord (2m) (2), instruction manual (1), Dimensions: approx. 450(W) x 180(H) x 450(D) mm	Unit is mounted to Main frame.		

APC: Angled PC SPC: Super PC

Product name	Model	Emission wavelength (nm)	Spectral (Note 1) halfwidth/width (nm)	Optical output level (dBm)	Applicable optical fiber	Notes	
	AQ4215 (085)	850 ± 15	60 or less	-15 or more	GI	Also polost AC0422 (*) Connector Adoptor (option)	
	AQ4215 (131)	1310 ± 30	140 or less	-21/-40 or more	GI/SM	Also select AQ9433 (*) Connector Adapter (option). (*: Requires FC, SC, ST, DIN or HMS-10/A	
LED Unit	AQ4215 (155)	1550 ± 35	195 or less	-43 or more		connector.)	
	AQ4218 (131)	1310 ±10	20 or less	50			
	AQ4218 (155)	1550 ± 10	25 or less	–50 or more			
	AQ4221 (131)	1310 ± 10	20 or less	-28 or more			
EE-LED Unit	AQ4221 (155)	1550 ± 10	25 or less	-32 or more	SM	Also select AQ9434 (*) Universal Adapter (option). (*: Requires FC, SC, ST, DIN or HMS-10/A	
EE-LED OIIII	AQ4222 (131)	1310 ± 40	100 or less	–15 typ.	SIVI	connector.) (Note 2)	
	AQ4222 (155)	1550 ± 30	140 or less	–17 typ.			
	AQ4211 (131)	1310 ± 20	5 or less				
	AQ4211 (155)	1550 ± 20	10 or less	0 or more			
LD Unit	AQ4211 (165)	1650 +5/-10	10 or less				
	AQ4212 (130)	1300 ± 20	5 or less		GI		
	AQ4213 (131/155)	1310/1550 ± 20	5/10 or less	-1 or more			
DFB-LD Unit	AQ4214 (131)	1310 ± 10		0 or more		Also select fiber cord with SP/SPC connector.	
DFB-LD OIIII	AQ4214 (155)	1550 ± 10	0.1 or less	o or more	SM .		
WDM LD Unit	AQ4224 (155)	1530 to 1570		+3 or more	SW	Also select fiber cord with SC/APC connector, Specify emission wavelength range from 1530 to 1570nm, Please refer to specifications of AQ4224 (155) for details.	
ASE Unit	AQ4310 (155)	1550 ± 20	40 or more	+8 or more		Also select AQ9434 (*) Universal Adapter (option). (*: Requires FC, SC, ST, DIN or HMS-10/A connector.) (Note 2)	

Specifications

Main frame

Display	Measurements: 7-segment fluorescent display panel, 5 and 1/2 digits, 13-dot bar graph. Intensity: 4 levels (100%, 75%, 50%, 25%)				
Unit display	Absolute: dBm, mW, µW, nW, pW Relative: dB Comparative: None				
Calibration factor	Correction of sensor wavelength sensitivity (1nm steps) or input of relative value				
Range	Automatic or fixed (up/down)				
Measurement mode	Selectable, CW light/chopped light (270Hz, 1kHz, 2kHz)				
Optical output waveform	Selectable, CW light/chopped light (270Hz, 1kHz, 2kHz)				
Measurement interval (see note)	Selectable 10(20)/50/100ms				
Averaging	Sequential average (2/5/10/20/50/100/200 times), on/off select				
Display resolution	Selectable (0.1, 0.01, 0.001)				
Relative measurement	Relative to reference setting or to displayed measurement value				
Data storage	Max. 1,000 samples (each channel)				
Attenuation setting	Peak attenuation 6.0dB(0.1dB steps)				
Measurement condition setup function	10 condition sets are stored for read and use (one defined as default)				
Plotter function	Memory data is graphed for output to external plotter				
Data hold	Measurement maximum, minimum and difference				
GP-IB	Compatible with IEEE-488				
Power requirements	AC100 to 120, 200, to 240V, 48 to 63Hz, Max. 80VA				
Environmental conditions	Operating temperature: 0 to 50°C, storage temperature: -25 to +70°C, humidity: 85% RH or less				
Dimensions and mass	Approx. 212(W) × 88(H) × 350(D) mm, approx. 3kg				
Accessories	Power cord. instruction manual, blank panel, dust cover for external extension, dust cover for GP-IB connector: one				

^{*} These specifications are applied when the AQ2141 Optical Multimeter Expansion Frame is disconnected.

Note: Value in parentheses () is minimum when two sensors connected.

OPM units, sensor units, sensors

Model		AQ2731	AQ2732	AQ2733	
Unit name		Sensor Unit	Sensor Unit	Sensor Unit	
Navelength range		400 to 1100nm	700 to 1	700nm	
Photoreceptor		Si	InGaAs	Cooled InGaAs	
Application			Small-diameter silica fiber emission 1)		
nput		AQ9335(*)connector adapter: Option 3)	AQ9389B (FC) connect	or adapter: Standard 4)	
Polarization depen	dency loss 6)	Not specified	0.02dB p-p typ.	0.02dB p-p or less	
Dower renge 7	CW light	-100 to 3dBm (0.1pW to 2mW)	-80 to +10dBm (10pW to 10mW)	-110 to +10dBm (0.01pW to 10mW)	
Power range ⁷⁾ Chopped light		-100 to 0dBm (0.1pW to 1mW)	–90 to +7dBm (1pW to 5mW)	-110 to +7dBm (0.01pW to 5mW)	
Inaccuracy under r conditions 8)	eference	±2.5% (at 850nm calibration point)	±2.5% (at 1310nm calibration point)		
Total accuracy 9)		±5% (500 to 900nm)	±5% (1000 to 1600nm)	±5% (1000 to 1650nm)	
Linearity 10) (constant temperat	ure 23±5°C)	±0.05dB (500 to 900nm, -70 to +3dBm)	±0.05dB (1000 to 1600nm, -50 to +10dBm)	±0.05dB (1000 to 1650nm, -70 to +10dBm)	
Noise 11)	oise ¹¹⁾ CW light –93dBm o		-73dBm or less -83dBm or less	-93dBm or less	
Analog out		0 to approx. +2V for each range, output impedance: 1.5kΩ or less			
Zero set		Automatic zero adjust			

		400704	400705		AQ2730	
Model		AQ2734	AQ2735	AQ2741	AQ2742	AQ2743
Unit name		Sensor Unit	Sensor Unit		OPM Unit	
Unit name		Sensor Offic	Sensor Offic	Sensor	Sensor	Sensor
Wavelength range		900 to 1870nm	700 to 1700nm	400 to 1100nm	750 to 1	1800nm
Photoreceptor		Cooled	InGaAs	Si I10mm	Ge ø 5mm	Cooled Ge ø 5mm
Application		Small-diameter sili	ca fiber emission 1)	Large-dia	meter fiber emission, free-spa	ice beam 2)
Input		AQ 9389B (FC) connec	tor adapter: Standard 4)		Photodiode direct 5)	
Polarization depend	ency ⁶⁾	0.02dB P-P or less	0.02dB P-P typ.	Not specified	0.03dB	P-P typ.
Power range 7)	CW light	-90 to +3dBm (1pW to 2mW)	-80 to +27dBm (10pW to 0.5W)	-80 to +10dBm (10pW to 10mW)	-60 to +10dBm (1nW to 10mW)	-80 to +10dBm (10pW to 10mW)
rower range "	Chopped light	-90 to 0dBm (1pW to 1mW)	-80 to +24dBm (10pW to 0.25W)	-90 to +7dBm (1pW to 5mW)	-70 to +7dBm (0.1nW to 5mW)	-90 to +7dBm (1pW to 5mW)
Inaccuracy under re conditions 8)	ference	±2. (at 1310nm ca	5% libration point)	±2.5% (at 850nm calibration point)	±2. (at 1310nm ca	5% libration point)
Total accuracy 9)		±5% (1200 to 1700nm)	±5% (1000 to 1650nm)	±5% (500 to 900nm)	±5 (950 to	5% 1600nm)
Linearity 10) (constant temperature 23±5°C)		±0.05dB (1200 to 1700nm, -60 to +3dBm)	±0.05dB (1000 to 1650nm, -40 to +27dBm)	±0.05dB (500 to 900nm, -50 to +10dBm)	±0.05dB (950 to 1600nm, -30 to +10dBm)	±0.05dB (950 to 1600nm, -50 to +10dBm)
Noise 11)	CW light	-83dBm or less	-73dBm or less	-73dBm or less	-53dBm or less	-73dBm or less
140100	Chopped light	CCGEIII OI less	, odbill of less	–83dBm or less	-83dBm or less -63dBm or less -83dBm or less	
Analog out			0 to approx. +2V	or each range, output impeda	nce: 1.5kΩ or less	
Zero set				Automatic zero adjust		

- Notes
 Notes

- 9) Operating conditions
 (1) Power level 20d8m (10µW), CW light
 (2) \$0µm optical fiber, NA 0.2
 (3) Ambient temperature: AQ2731/2732 sensor units and AQ2741/2742 sensors at 23±1°C, AQ2733/2734/2735 sensor units and AQ2743 sensor at 23±6°C.
 (4) 2731 sensor unit and AQ2741/274/2743 sensors with AQ93395 (*) FC connector adapter. AQ2732/2733/2734/2735 sensor units with AQ93396 (FCSC) connector adapter.
 10) (1)Linearity for one wavelength within wavelength specified in total measurement accuracy.
 (2) CW light, ambient temperature: AQ2731/2732 sensor units and AQ2741/2742 sensors at 23±1°C, AQ2733/2734/2735 sensor units and AQ2743 sensor at 23±5°C.
 (1) (1)Naveraging is (measurement interval 100ms, averaging executed 10 times).
 (2) AQ2731 sensor units and AQ2741 sensor at 700 to 900nm, AQ2732/2733/2734/2735 sensor units and AQ2742/2743 sensor at 1200 to 1600nm.

 - 1600nm.
 (3) CW, chopped (270Hz).
 (4) Ambient temperature: AQ2734 sensor unit at 0 to 30°C

High return loss connector adapter

Model	AQ9438 (FC)
Unit name	High Return Loss Connector Adapter
Applicable fiber	SM (10/125µm)
Return loss 1)	40dB or more
Insertion loss 2)	0.2dB or less

Notes

- 1) Wavelength 1310/1550nm, SM fiber. When connected PC polished plug with 40dB or more.
- 2) Wavelength 1310/1550nm, SM fiber. Standard AQ9389B (FC) Connector Adapter as reference.

Return loss unit

Model	AQ7310 1,2)	AQ7315 3,4,5)			
Unit name	Optical Return Loss Measuring Unit				
Wavelength range	1280 to 1600nm	1270 to 1330nm			
Dynamic range ⁶⁾	65dB or more	40dB or more			
Relative measurement accuracy 7)	Within ±0.4dB (0 to 50dB) Within ±0.7dB (50 to 60dB)	Within ±0.5dB (0 to 30dB) Within ±1.0dB (30 to 40dB)			
Measurement stability	Within ±0.02dB®	Within 1dB _{P-P 9)}			
Applicable fiber	SM (10/125μm)	GI (50/125µm)			
Light source input connector	FC/PC				
Measurement output connector 10)	SC/APC				

(*) Recommended exciters

()							
Maker	Unit name	Notes					
Sumitomo Electric Industries, LTD.	Exciter for loss measurement of GI type optical fiber LF-2C	-					
Evillana Ltd	Dummy fiber for optical loss measurement FMC-03	With front protecting cover					
Fujikura Ltd.	Dummy fiber for optical loss measurement FMC-04	Without front protecting cover					
The Furukawa Electric co.,LTD.	GSGG type exciter						

Notes

- 1) With AQ4211/AQ4213 LD Unit, with 1280 to 1600nm wavelength range. At 23±1°C, with Fresnel reflection reference.
- 2) Requires master cord for AQ7310.
- 3) When using the AQ4212 (130) LD Unit. At 23°C with total reflection reference.
- 4) Requires master cord for AQ7315 5) AQ7315's LD light source output is needed to be connected to exciter. (*)
- 6) Varies with master cord.
- 7) Varies with light source stability, photoreceptor linearity, and isolation of optical coupler.
- 8) Display stability with Fresnel reflection measurement, 5 minutes.
- 9) Display stability with total reflection reference measurement, 5 minutes.
- 10) Manufactured by SEIKOH GIKEN. APC: Angled PC
- * Please consult your vendor or our sales offices on AQ7316 (applicable fiber: GI (62.5/125µm)).

Light source unit (LED)

		<u> </u>					
Model	odel AQ4215 (085)		AQ4215 (131)	AQ4215 (155) AQ4218 (131)		AQ4218 (155)	
Unit name		LED Unit					
Emission device			LED				
Center waveleng	ıth 1)	850 ± 15nm	1310 ± 30nm	1550 ± 35nm 1310 ± 10nm 1550 ± 10nm			
Applicable fiber		GI (50/125μm, 62.5/125μm)	GI (50/125µm, 62.5/125µm)/ SM (10/125µm)	SM (10/125µm)			
Spectral halfwidt	Spectral halfwidth 2) 60nm or less 140nm or less 195nm or less 20nm or less		25nm or less				
Optical output	GI (50/125µm)	-15dBm or more	-21dBm or more				
level 3)	SM (10/125µm)		-40dBm or more	–43dBm or more	-50dBm or more		
	Temperature stability					r less 4)	
Output level	Time stability	Within ±0.005dB ⁵⁾ Within ±0.03dB ⁷⁾			Within ±0.003dB ⁶⁾ Within ±0.03dB ⁸⁾		
Optical connecto	or ⁹⁾	AQ	9433 (*) Connector Adapter: opt	tion	AQ9434 (*) Univers	sal Adapter: option	

Model		AQ4221 (131) AQ4221 (155) AQ4222 (131) AQ4222 (155)					
Unit name			EE-LE	D Unit			
Emission device	3		EE-I	LED			
Center wavelen	gth ¹⁾	1310 ± 10nm	1550 ± 10nm	1310 ± 40nm	1550 ± 30nm		
Applicable fiber		SM (10/125μm)					
Spectral halfwid	th ²⁾	20nm or less 25nm or less 100nm or less 140nm or le					
Optical output	GI (50/125µm)						
level 3)	SM (10/125µm) –28dBm or mor		-32dBm or more	-15dBm typ.	-17dBm typ.		
	Temperature stability						
Output level	Time stability		Within ±0.005dB ⁶⁾ Within ±0.03dB ⁸⁾		±0.003dB typ. ⁶⁾ ±0.03dB typ. ⁹⁾		
Optical connector 10) AQ9434 (*) Universal Adapter: option				sal Adapter: option			

Notes

- 1) At 25°C
- 2) At 25°C. Spectral halfwidth shown as FWHM.
- 3) CW light, 0 to 50°C, 2m fiber injection end
- 4) 0 to 50 $^{\circ}\text{C}$ (8 hours), connector injection end
- 4) 0 to 50 C (8 hours), connector injection end
 5) Constant temperature, 5 minutes (single temperature between 20 and 30°C), GI (50/125μm), 2m injection end
 6) Constant temperature, 5 minutes (single temperature between 20 and 30°C), SM (10/125μm), 2m injection end
 7) ±1°C (1 hour) between 0 and 50°C, GI (50/125μm), 2m injection end
 8) ±1°C (1 hour) between 0 and 50°C, SM (10/125μm), 2m injection end
 9) ±1°C (1 hour) between 0 and 40°C, SM (10/125μm), 2m injection end
 9) ±1°C (1 hour) between 0 and 40°C, SM (10/125μm), 2m injection end

- 10) (*) indicates connector type. Specify FC, SC, ST, DIN or HMS-10/A connector. For other connectors please consult your vendor or our sales offices.



Light source unit (LD)

•									
Model		AQ4211 (131) AQ4211 (155) AQ4211 (165)			AQ4212 (130)	AQ4213 (131/155)	AQ4214 (131)	A4214 (155)	
Unit name		LD Unit DFB-LD Unit				D Unit			
Emission device		LD DFB-				- LD			
Center waveleng	gth ¹⁾	1310 ± 20nm	1550 ± 20nm	1650+5nm/-10nm	1300 ±20nm	1310/1550 ± 20nm	1310/1550 ± 20nm		
Applicable fiber			SM (10/125µm)		GI (50/125µm)		SM (10/125μm)		
Spectral width 2)		5nm or less	10nm or less		5nm or less	5/10nm or less	or less 0.1nm or less		
Optical output	GI (50/125µm)		·		0dB or more				
level 3)	SM (10/125µm)		0dBm or more			-1dBm or more OdBm or more		or more	
	Temperature stability	0.2dB or less 4)		0.3dB or less 5)	0.3dB or less 4)	0.3dB or less ⁶⁾	0.3dB or less ⁶⁾		
Output level	Time stability	Within ±0.003dB ⁶⁾ Within ±0.03dB ⁷⁾		Within ±0.005dB ⁶⁾ Within ±0.05dB ⁸⁾	Within ±0.01dB 9) Within ±0.05dB 10)	Within ±0.005dB ⁶⁾ Within ±0.05dB ⁸⁾	Within ±0.01dB ⁶⁾ Within ±0.05dB ⁸⁾		
Optical connect	or		AQ9434	(*) Universal Adapter:	option 11)		SC/A	PC ¹²⁾	

Notes

- 1) At 25°C 2) At 25°C. Spectral width shown as RMS. (2 σ , -20dB)
- 3) CW light, 2m fiber injection end
- 4) 0 to 50°C (8 hours), connector injection end
- 5) 0 to 40°C (8 hours), connector injection end
- 6) Constant temperature, 5 minutes (single temperature between 20 and 30 $^{\circ}$ C), SM (10/125 μ m), 2m injection end

Light source unit

Model		AQ4224 (155)
Unit name		WDM LD Unit
Selectable wavelength ra	nge 1)	1530 to 1570nm
Center wavelength 2,7)		$\lambda P \pm 0.1$ nm
Applicable fiber ³⁾		SM (10/125µm)
Spectral width 2,4)		0.1nm or less
Marrala anth a director ant	Adjustment range	1nm ⁸⁾
Wavelength adjustment	Resolution	0.01nm ^{a)}
Optical output level 8)		+10dBm or more
Center wavelength stabili	ty	Within 0.01nm ^{2, 5)} Within 0.03nm ^{2, 6, 8)}
	Temperature stability	±0.3dB 8,9)
Output level	Time stability	Within ±0.01dB ^{2,5)} Within ±0.05dB ^{2,6,8)}
Optical connector 10)		SC/APC

- 1) Please consult your vendor or our sales offices for information on other wavelength range than above.
 2) CW light, 0.0dB attenuation, at connecting fiber output point (SC/APC-FC/SPC, 2m, SMF).
 3) Please consult your vendor or our sales offices for information on other fibers.
- 4) rms (2α, -20dB) Note 5: 5 minutes (constant and single temperature between 20 and 30°C)
- 6) 1 hour (±1°C between 10 and 30°C)
- 7) λp : 1552.5nm \pm (n \times 0.8nm) = 193.1 THz \pm (n \times 100GHz) Note 8: Representative rate
- 9) Environmental temperature between 10 and 30°C 10) Manufactured by SEIKOH GIKEN. APC: Angled PC

- 7) \pm 1°C (1 hour) between 0 and 50°C, SM (10/125µm), 2m injection end 8) \pm 1°C (1 hour) between 0 and 40°C, SM (10/125µm), 2m injection end
- 9) Constant temperature, 5 minutes (single temperature between 20 and 30°C), GI (50/125µm),
- 10) \pm 1°C (1 hour) between 0 and 50°C, GI (50/125 μ m), 2m injection end
- 11) (*) indicates connector type. Specify FC, SC, ST, DIN or HMS-10/A connector. For other connectors please consult your vendor or our sales offices.
- 12) Manufactured by SEIKOH GIKEN. APC: Angled PC

Model		AQ4310 (155)
Unit name		ASE Unit
Spectrum density (-13dBm/nm)		1525 to 1570nm (typ.) 1530 to 1565nm
Applicable fiber		SM (10/125µm)
Total output power 1, 2)		+10dBm or more
Output level	Temperature stability	±0.3dB 5)
	Time stability	Within ±0.005dB 1,6) Within ±0.05dB 1)
Polar wave light extinction comparison		0.1dB typ.
Optical connector 7)		AQ9434 (*) Universal Adapter (option)

- 1) CW light, 0.0dB attenuation, at SM fiber (10/125µm) 2m output point.
- 2) At 25°C.
- 3) 8 hours (at 0 to 40°C)
- 4) 5 minutes (single temperature between 20 and 30°C)
- 5) *: connector type. Select FC, SC, ST, DIN or HMS-10/A. Please consult your vendor or our sales offices for information on other connectors.
- * This unit can be mounted by AQ2141 Optical Multimeter Expansion Frame.

 By connecting AQ2141 mounted AQ4310 (155) and AQ2140, the operation from AQ2140 becomes possible.

Expansion frame

Model	AQ2141	
Unit name	Optical Multimeter Expansion Frame	
Number of connecting unit	Max. 4 channels	
Number of channel connection	Max. 16, connectable 4 units max. to AQ2140 ¹⁾	
Connectable unit 2)	One of sensors (Sensor unit, OPM unit) or light sources (Light source unit)	
Interface	Original serial interface	
Environmental conditions	Operating temperature: 0 to 50°C, Storage temperature: -25 to +70°C, Humidity: 85% RH or less	
Power requirements	AC100 to 240V, 48 to 63Hz, approx. 60VA	
Dimensions and mass	Approx. 212 (W) x 133 (H) x 350 (D) mm, approx. 3.5kg	
Accessories	Power cord: 1, connecting cord: 1, user's manual: 1	

* Needs AQ2140 to make sensor units work.

Notes

- 1) When connected to AQ2140 you already have, some AQ2140 models may require factory updates to software depending on their version.
- 2) Optical return loss measurement unit is not
- 3) Sensors and OPM units should all be of the same type. Some sensors and OPM units may require factory updates to software depending on their version. Please consult your vendor or our sales offices for information on software.
- 4) Light source units may be freely mixed.