

Modules for AQ23011A, AQ23012A Checking the Contents of the Package and Handling Precautions of the Modules

Thank you for purchasing the AQ23011A/AQ23012A Modules.

To ensure correct use, please read this manual thoroughly before beginning operation. For details on the functions and performance, see the user's manual for the AQ23011A/AQ23012A frame (IM AQ23011A-01EN, IM AQ23011A-02EN, and IM AQ23011A-03EN). The following manuals, including this one, are provided as manuals for the instruments. Please read all manuals.

Manual Title	Manual No.	Description
Modules for AQ23011A, AQ23012A Checking the Contents of the Package and Handling Precautions of the Modules	IM AQ23811A-01EN	This manual. This is included with AQ23011A/AQ23012A modules. It explains the handling precautions of the module and lists the package contents.
Modules for AQ23011A, AQ23012A	IM AQ23811A-92Z1	A document for China.

The "EN" and "Z1" in the manual numbers are the language codes.

The latest editions of manuals and firmware (AQ23011A, or AQ23012A software) are available to registered customers for download from our website.

<https://tmi.yokogawa.com/library/>

Contact information of Yokogawa offices worldwide is provided on the following sheet.

Manual No.	Description
PIM 113-01Z2	List of worldwide contacts

Safety Precautions

This product is designed to be used by a person with specialized knowledge. The general safety precautions described herein must be observed during all phases of operation. If the instrument is used in a manner not specified in this manual, the protection provided by the instrument may be impaired.

This manual is part of the product and contains important information. Store this manual in a safe place close to the instrument so that you can refer to it immediately. Keep this manual until you dispose of the instrument.

YOKOGAWA assumes no liability for the customer's failure to comply with these requirements.

The following symbols are used on this instrument.



Handle with care. Refer to the user's manual or service manual. This symbol appears on dangerous locations on the instrument which require special instructions for proper handling or use. The same symbol appears in the corresponding place in the manual to identify those instructions.



Laser radiation hazard

French



À manipuler délicatement. Toujours se reporter aux manuels d'utilisation et d'entretien. Ce symbole a été apposé aux endroits dangereux de l'instrument pour lesquels des consignes spéciales d'utilisation ou de manipulation ont été émises. Le même symbole apparaît à l'endroit correspondant du manuel pour identifier les consignes qui s'y rapportent.



Danger : Appareil laser à rayonnement.

Safety Precautions of the Modules

The following precautions must be observed when handling the modules. YOKOGAWA assumes no liability for the customer's failure to comply with these requirements. For details on the installation/removal procedure and the specifications of the modules, see the user's manual for the AQ23011A/AQ23012A frame (IM AQ23011A-03EN).





WARNING

Use the Instrument Only for Its Intended Purpose

This instrument functions as a source measure instrument that sources and measures voltage and current when an SMU is used in the frame. When LS, OPM, VOA, and OSW are installed in the frame of this instrument, it functions as an optical measuring instrument for measuring optical characteristics and evaluating performance. Use this instrument only for this purpose.

Check the Physical Appearance

Do not use the instrument if there is a problem with its physical appearance.

Do Not Operate in an Explosive Atmosphere

Do not operate the instrument in the presence of flammable gasses or vapors. Doing so is extremely dangerous.

Blank Panel

Make sure to put the 735186 Blank Panel on the slots that are not being used to prevent electric shock and to satisfy the specifications. Using the main unit without the Blank Panel allows dust to enter the main unit and may cause malfunction due to the rise in temperature inside the main unit.

Do not look at the laser's direct light

Do not look at the laser's direct light, reflected light from a mirror, or indirect light without proper protective eyewear. In addition, avoid being exposed to the laser light. It can cause blindness or damage to the eye. Place a cover over unused optical connectors.

Angled PC Only Connector

Only connect an angled-physical contact type optical fiber to the ANGLED PC ONLY connector. Other types of connectors can damage the connector's ferrule end.

Do Not Remove the Covers or Disassemble or Alter the Instrument

Only qualified YOKOGAWA personnel may remove the covers and disassemble or alter the instrument.

Install or Use the Instrument in Appropriate Locations

- Do not install or use the instrument outdoors or in locations subject to rain or water.
- Install the instrument so that you can immediately remove the power cord if an abnormal or dangerous condition occurs.

Dispose the Instrument Properly

- Do not throw this instrument into a fire to dispose of it. Doing so may cause the instrument to explode, resulting in fire or personal injury.
- The devices used in this instrument contain gallium arsenide (GaAs), indium phosphide (InP) and Indium gallium arsenide (InGaAs). When you dispose this instrument, you must separate it from general industrial waste and household garbage, and dispose of it according to local regulations.
- Additionally, gallium arsenide powder and vapor are dangerous substances. Do not burn, cut, crush, chemically disassemble, or otherwise destroy this instrument.

French



AVERTISSEMENT

Utiliser l'instrument aux seules fins prévues

Cet instrument fonctionne comme un instrument de mesure conçu pour la source et la mesure de la tension et du courant lorsqu'un SMU est utilisé dans le châssis. Lorsque les modules LS, OPM, VOA et OSW sont installés dans le cadre de cet appareil, celui-ci fonctionne comme un instrument de mesure optique pour mesurer les caractéristiques optiques et évaluer les performances. Utilisez cet instrument uniquement à cet effet.

Inspecter l'apparence physique

Ne pas utiliser l'instrument si son intégrité physique semble être compromise.

Ne pas utiliser dans un environnement explosif

Ne pas utiliser l'instrument en présence de gaz ou de vapeurs inflammables.
Cela pourrait être extrêmement dangereux.

Panneau vide

Pour éviter tout choc électrique et garantir un fonctionnement de l'instrument conforme aux spécifications, veiller à couvrir tous les emplacements non utilisés des panneaux vides vendus séparément. Si vous utilisez l'instrument sans couvrir les emplacements non utilisés des panneaux vides, celui-ci risque de ne pas fonctionner correctement en raison de l'accumulation de poussière ou d'une surchauffe interne.

Faisceau laser

Ne pas fixer directement ou indirectement le faisceau laser, ni la réflexion spéculaire du faisceau en l'absence d'équipement de protection. Ne pas orienter le faisceau laser en direction des yeux. Le faisceau laser peut entraîner la cécité ou causer des lésions oculaires. Recouvrir le connecteur optique à l'aide du cache pendant les périodes de non-utilisation.

Connecteur optique ANGLED PC ONLY

Ne brancher que des fibres optiques de type APC (contact physique avec angle) au connecteur optique ANGLED PC ONLY. D'autres types de connecteurs pourraient endommager l'embout du connecteur.

Ne pas retirer le capot, ni démonter ou modifier l'instrument

Seul le personnel YOKOGAWA qualifié est habilité à retirer le capot et à démonter ou modifier l'instrument.

Installer et utiliser l'instrument aux emplacements appropriés

- Ne pas installer, ni utiliser l'instrument à l'extérieur ou dans des lieux exposés à la pluie ou à l'eau.
- Installer l'instrument de manière à pouvoir immédiatement le débrancher du secteur en cas de fonctionnement anormal ou dangereux.

Mettre l'instrument au rebut de manière adéquate

- Ne pas mettre l'instrument au rebut en le jetant au feu. Il risquerait d'exploser et de provoquer un incendie ou de blesser quelqu'un.
- Les dispositifs utilisés avec cet instrument contiennent de l'arséniure de gallium (AsGa) du phosphore d'indium (InP) et arséniure d'indium et de gallium (InGaAs). Lors de la mise au rebut de l'instrument, vous ne devez pas l'associer aux déchets industriels généraux ni aux déchets domestiques, mais l'éliminer conformément aux réglementations locales.
- De plus, la poudre et les vapeurs d'arséniure de gallium sont des substances dangereuses. Ne pas brûler, couper, écraser, démonter chimiquement ou détruire cet instrument.

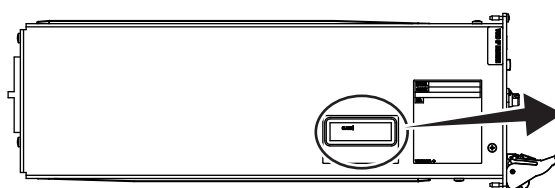
Safety Precautions for Laser Products

AQ23111A and AQ23112A Modules

This instrument uses a laser light source. This instrument is a class 1 laser product as defined by IEC 60825-1:2014 Safety of Laser Products—Part1: Equipment Classification, and Requirements. In addition, this module complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3, as described in Laser Notice No. 56, dated May 8, 2019.

Laser classes differ depending on the standard number and year. Take safety measures according to the laser class corresponding to the standard of the country or region that the instrument will be used in.

• AQ23111A



Laser Class 1 Label

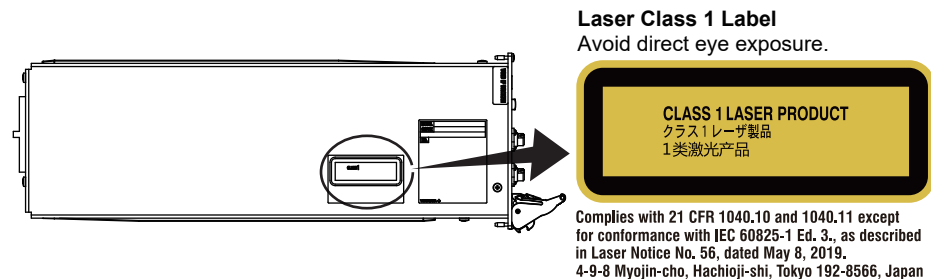
Avoid direct eye exposure.



Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3, as described in Laser Notice No. 56, dated May 8, 2019, 4-9-8 Myojin-cho, Hachioji-shi, Tokyo 192-8566, Japan

Class	Laser Type	Center wavelength	Maximum Output Power	Mode Field Diameter	Repetition Rate	Beam divergence angle (all angles @ 1/e ²)
1	DFB-Laser	1310 to 1650 nm	40 mW	9 μm	CW	11.5°

• AQ23112A

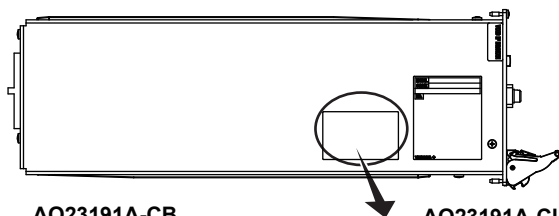


Class	Laser Type	Center wavelength	Maximum Output Power	Mode Field Diameter	Repetition Rate	Beam divergence angle (all angles @ 1/e ²)
1	DFB-Laser	1310 to 1650 nm	40 mW	9 μm	CW	11.5°

AQ23191A Module

This instrument uses a laser light source. This instrument is a class 3R laser product as defined by IEC 60825-1:2014 Safety of Laser Products—Part1: Equipment Classification, and Requirements. In addition, this module complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3, as described in Laser Notice No. 56, dated May 8, 2019.

Laser classes differ depending on the standard number and year. Take safety measures according to the laser class corresponding to the standard of the country or region that the instrument will be used in.



Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.
4-9-8 Myojin-cho, Hachioji-shi, Tokyo 192-8566, Japan

AQ23191A-CB



Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.
4-9-8 Myojin-cho, Hachioji-shi, Tokyo 192-8566, Japan

AQ23191A-CL



Laser Class 3R Label
Avoid direct eye exposure.

Class	Laser Type	Center wavelength	Maximum Output Power	Mode Field Diameter	Repetition Rate	Beam divergence angle (all angles @ 1/e ²)
3R	ASE Source	C band CL band	160 mW 130 mW	9 μm	CW	11.5°

Waste Electrical and Electronic Equipment (WEEE)



(EU WEEE Directive valid only in the EEA* and UK WEEE Regulation in the UK)

This product complies with the WEEE marking requirement. This marking indicates that you must not discard this electrical/electronic product in domestic household waste. When disposing of products in the EEA or UK, contact your local Yokogawa office in the EEA or UK respectively.

* EEA: European Economic Area

Authorized Representative in the EEA

Yokogawa Europe B.V. is the authorized representative of Yokogawa Test & Measurement Corporation for this product in the EEA. To contact Yokogawa Europe B.V., see the separate list of worldwide contacts, PIM 113-01Z2.

Compatibility between the AQ23011A/AQ23012A Software Version and AQ23011A/AQ23012A Modules

Some modules cannot be used with older versions of the AQ23011A/AQ23012A software. Refer to the table below for version requirements. If your AQ23011A/AQ23012A requires a newer version of the software, download from our website. To determine the software version, see section 5.6 in the user's manual for the AQ23011A/AQ23012A frame (IM AQ23011A-03EN).

Model	Module Name	AQ23011A/AQ23012A Version (Firmware Version)
AQ23811A	Source Measure Unit	1.00 and later
AQ23211A	Optical Power Meter	2.00 and later
AQ23212A	Optical Power Meter	2.00 and later
AQ23111A	Light Source	4.00 and later
AQ23112A	Light Source	4.00 and later
AQ23191A	Light Source	4.00 and later
AQ23202A	Interface Module	4.00 and later
AQ23221A	Optical Power Meter	4.00 and later
AQ23291A	Optical Sensor Head	4.00 and later
AQ23295A	Optical Sensor Head	4.00 and later
AQ23311A	Variable Optical Attenuator	4.00 and later
AQ23321A	Variable Optical Attenuator	4.00 and later
AQ23332A	Variable Optical Attenuator	4.00 and later
AQ23411A	Optical Switch	4.00 and later
AQ23412A	Optical Switch	4.00 and later
AQ23413A	Optical Switch	4.00 and later
AQ23421A	Optical Switch	4.00 and later
AQ23422A	Optical Switch	4.00 and later

Using open source software

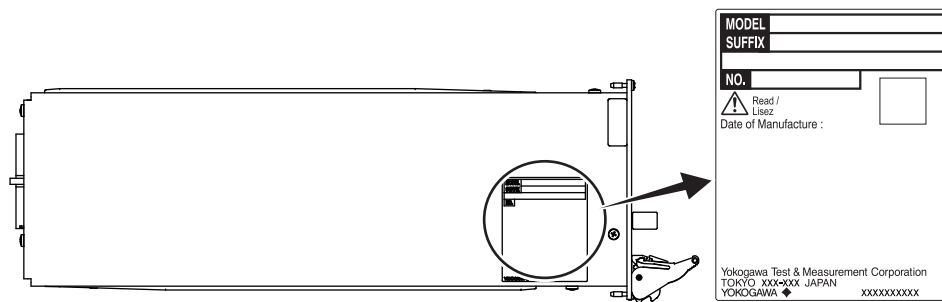
This product includes open source software.

The license for each open source software can be found in TermsAndConditions_OpenSourceSoftware.pdf in the \License folder of the frame's internal storage.

For how to access the \License folder in the internal memory of the frame's internal storage, see "How to View the User's Manual" in the Getting Started Guide (IM AQ23011A-03EN)..

Checking the Contents of the Package

If some of the contents are not correct or missing or if there is physical damage, contact the dealer from which you purchased them. Also, check that the model and suffix code on the name plate on the side panel of the module match those of your order. For products whose suffix code contains "Z," an exclusive manual may be included. Please read it along with the standard manual.



AQ23811A Source Measure Unit (MODEL AQ23811A)

Item	Suffix Code	Description
AQ23811A		± 6 V / ± 600 mA, 2ch
Model	-10	Standard model

• Accessories

Item	Model or Part No.	Q'ty	Notes
Measurement plug	A3604JQ	2	FMC 0, 5/6-ST-2, 54/ made by Phoenix Contact Shipped inserted in terminal
Trigger plug	A3606JQ	1	DFMC 0, 5/2-ST-2, 54/ made by Phoenix Contact Shipped inserted in terminal
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23111A Light Source (MODEL AQ23111A)

Item	Suffix Code	Description
AQ23111A		Light source (1ch)
Center wavelength, Type	-W31	1310 nm, DFB-LD
	-W55	1550 nm, DFB-LD
	-W62	1625 nm, DFB-LD
	-W65	1650 nm, DFB-LD
Fiber type	-SMF	Single mode fiber (9/125 μ m)
Connector type	-FCA	FC/Angled PC connector

• Accessories

Item	Model or Part No.	Q'ty	Notes
Protective cap	—	1	
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23112A Light Source (MODEL AQ23112A)

Item	Suffix Code	Description
AQ23112A		Light source (2ch)
Center wavelength, Type	-W3131	Ch1:1310 nm, Ch2:1310 nm, DFB-LD
	-W3155	Ch1:1310 nm, Ch2:1550 nm, DFB-LD
	-W3162	Ch1:1310 nm, Ch2:1625 nm, DFB-LD
	-W3165	Ch1:1310 nm, Ch2:1650 nm, DFB-LD
	-W5555	Ch1:1550 nm, Ch2:1550 nm, DFB-LD
	-W5562	Ch1:1550 nm, Ch2:1625 nm, DFB-LD
	-W5565	Ch1:1550 nm, Ch2:1650 nm, DFB-LD
	-W6262	Ch1:1625 nm, Ch2:1625 nm, DFB-LD
	-W6265	Ch1:1625 nm, Ch2:1650 nm, DFB-LD
	-W6565	Ch1:1650 nm, Ch2:1650 nm, DFB-LD
Fiber type	-SMF	Single mode fiber (9/125 μ m)
Connector type	-FCA	FC/Angled PC connector

• Accessories

Item	Model or Part No.	Q'ty	Notes
Protective cap	—	2	
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23191A Light Source (MODEL AQ23191A)

Item	Suffix Code	Description
AQ23191A		Light source (1ch)
Wavelength band, Type	-CB	C band, ASE
	-CL	CL band, ASE
Connector type	-FCC	FC/PC connector
	-SCC	SC/PC connector

• Accessories

Item	Model or Part No.	Q'ty	Notes
Protective cap	—	1	
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23202A Interface Module (MODEL AQ23202A)

Item	Suffix Code	Description
AQ23202A		Interface module for optical sensor head (2ch)

• Accessories

Item	Model or Part No.	Q'ty	Notes
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23211A Optical Power Meter (MODEL AQ23211A)

Item	Suffix Code	Description
AQ23211A		1ch, Standard
Connector adapter	-FCC	AQ9335C (FC) Connector adapter (with a light shielding cap)
	-SCC	AQ9335C (SC) Connector adapter (with a light shielding cap)
	-LCC	AQ9335C (LC) Connector adapter
	-MUC	AQ9335C (MU) Connector adapter
	-NCA	No connector adapter

• Accessories

Item	Model or Part No.	Q'ty	Notes
Ring	—	1	
Protective cover	—	1	
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23212A Optical Power Meter (MODEL AQ23212A)

Item	Suffix Code	Description
AQ23212A		2ch, Standard
Connector adapter	-FCC	AQ9335C (FC) Connector adapter (with a light shielding cap)
	-SCC	AQ9335C (SC) Connector adapter (with a light shielding cap)
	-LCC	AQ9335C (LC) Connector adapter
	-MUC	AQ9335C (MU) Connector adapter
	-NCA	No connector adapter

• Accessories

Item	Model or Part No.	Q'ty	Notes
Ring	—	2	
Protective cover	—	2	
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23221A Optical Power Meter (MODEL AQ23221A)

Item	Suffix Code	Description
AQ23221A		Optical power meter, 1ch, High power
Connector adapter	-FCC	AQ9335C (FC) Connector adapter (with a light shielding cap)
	-SCC	AQ9335C (SC) Connector adapter (with a light shielding cap)
	-LCC	AQ9335C (LC) Connector adapter
	-MUC	AQ9335C (MU) Connector adapter
	-NCA	No connector adapter

• Accessories

Item	Model or Part No.	Q'ty	Notes
Ring	—	1	
Protective cover	—	1	
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23291A Optical Sensor Head (MODEL AQ23291A)

Item	Suffix Code	Description
AQ23291A		Optical sensor head, InGaAs, $\phi 5$ mm
Connection cable	-L1	1 m
	-L4	4 m
Connector adapter	-FCC	AQ9335C (FC) Connector adapter (with a light shielding cap)
	-SCC	AQ9335C (SC) Connector adapter (with a light shielding cap)
	-LCC	AQ9335C (LC) Connector adapter
	-MUC	AQ9335C (MU) Connector adapter
	-NCA	No connector adapter

• Accessories

Item	Model or Part No.	Q'ty	Notes
Ring	—	1	
Protective cap	—	1	
Connection cable	A1638WL	1	For -L1 model (cable length: 1 m)
	A1639WL	1	For -L4 model (cable length: 4 m)
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23295A Optical Sensor Head (MODEL AQ23295A)

Item	Suffix Code	Description
AQ23295A		Optical sensor head, Si, 5.8×5.8 mm
Connection cable	-L1	1 m
	-L4	4 m
Connector adapter	-FCC	AQ9335C (FC) Connector adapter (with a light shielding cap)
	-SCC	AQ9335C (SC) Connector adapter (with a light shielding cap)
	-LCC	AQ9335C (LC) Connector adapter
	-MUC	AQ9335C (MU) Connector adapter
	-NCA	No connector adapter

• Accessories

Item	Model or Part No.	Q'ty	Notes
Ring	—	1	
Protective cap	—	1	
Connection cable	A1638WL	1	For -L1 model (cable length: 1 m)
	A1639WL	1	For -L4 model (cable length: 4 m)
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23311A Variable Optical Attenuator (MODEL AQ23311A)

Item	Suffix Code	Description
AQ23311A		Variable optical attenuator, No output monitor
Fiber type	-SMF	Single mode fiber (9/125 μ m)
Connector type	-FCC	FC/PC connector
	-SCC	SC/PC connector
Monitor port	/MP	Monitor output port

• Accessories

Item	Model or Part No.	Q'ty	Notes
Protective cap	—	2	
		3	On models with the /MP option.)
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23321A Variable Optical Attenuator (MODEL AQ23321A)

Item	Suffix Code	Description
AQ23321A		Variable optical attenuator, with output monitor
Fiber type	-SMF	Single mode fiber (9/125 μm)
Connector type	-FCC	FC/PC connector
	-SCC	SC/PC connector

• Accessories

Item	Model or Part No.	Q'ty	Notes
Protective cap	—	2	
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23332A Variable Optical Attenuator (MODEL AQ23332A)

Item	Suffix Code	Description
AQ23332A		Variable optical attenuator, 2ch, with output monitor
Fiber type	-SMF	Single mode fiber (9/125 μm)
Connector type	-FCC	FC/PC connector
	-FCA	FC/Angled PC connector

• Accessories

Item	Model or Part No.	Q'ty	Notes
Protective cap	—	4	
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23411A Variable Optical Switch (MODEL AQ23411A)

Item	Suffix Code	Description
AQ23411A		Optical switch, 1 x 4, Single
Fiber type	-SMF	Single mode fiber (9/125 μm)
Connector type	-FCC	FC/PC connector
	-SCC	SC/PC connector

• Accessories

Item	Model or Part No.	Q'ty	Notes
Protective cap	—	5	
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23412A Variable Optical Switch (MODEL AQ23412A)

Item	Suffix Code	Description
AQ23412A		Optical switch, 1 x 8, Single
Fiber type	-SMF	Single mode fiber (9/125 μm)
Connector type	-FCC	FC/PC connector
	-SCC	SC/PC connector

• Accessories

Item	Model or Part No.	Q'ty	Notes
Protective cap	—	9	
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23413A Variable Optical Switch (MODEL AQ23413A)

Item	Suffix Code	Description
AQ23413A		Optical switch, 1 x 16, Single
Fiber type	-SMF	Single mode fiber (9/125 μm)
Connector type	-FCC	FC/PC connector
	-SCC	SC/PC connector

• Accessories

Item	Model or Part No.	Q'ty	Notes
Protective cap	—	17	
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23421A Variable Optical Switch (MODEL AQ23421A)

Item	Suffix Code	Description
AQ23421A		Optical switch, 1 x 2, Dual
Fiber type	-SMF	Single mode fiber (9/125 μm)
Connector type	-FCC	FC/PC connector
	-SCC	SC/PC connector

• Accessories

Item	Model or Part No.	Q'ty	Notes
Protective cap	—	6	
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts

AQ23422A Variable Optical Switch (MODEL AQ23422A)

Item	Suffix Code	Description
AQ23422A		Optical switch, 2 x 2, Dual
Fiber type	-SMF	Single mode fiber (9/125 μm)
Connector type	-FCC	FC/PC connector
	-SCC	SC/PC connector

• Accessories

Item	Model or Part No.	Q'ty	Notes
Protective cap	—	8	
User's manual	IM AQ23811A-01EN	1	Read before using the instrument
	IM AQ23811A-92Z1	1	Document for China
	PIM 113-01Z2	1	List of worldwide contacts