Operation Guide AQ4280

Optical Light Source

| | | Model | AQ4280A | AQ4280B | AQ4280C | |
|--------------------------------|---------------------------------------|---------------------------|---|-------------------------------------|--------------------------------|--|
| | Light emitter | | LD | | | |
| | Compliant fiber | | SM (ITU-T G.652) | | | |
| | Center wavelength [©] | | 1310/1550±20 nm | 1310/1550±20 nm | 1310/1550±20 nm | |
| | | | | 1490±10 nm | 1490/1625±10 nm | |
| Light Source Specifications | Spectral width ^{®®} | | <5 nm(1310 nm) | <5nm (1310 nm, 1490 nm) | <5 nm(1310 nm,1490 nm,1625 nm) | |
| | | | <10 nm(1550 nm) | < 10 nm(1550 nm) | <10 nm(1550 nm) | |
| | Optical output level [®] | | -5 dBm±1 dB | -5 dBm±1 dB | -5 dBm±1 dB | |
| | Level stability (15min) ^{©®} | | <±0.05 dB | <±0.05 dB (1310/1550nm) | <±0.05 dB (1310/1550 nm) | |
| | | | | <±0.1 dB (1490 nm) | <±0.1 dB (1490/1625 nm) | |
| | Modulation Mode | | CW,CHOP(270Hz, 1kHz, 2kHz) | | | |
| | Optical Connector | | FC,SC,ST | | | |
| | Power supply | | Dry and Rechargeable Battery AA | | | |
| | | Battery life [®] | Approximately 25 hours | | | |
| | | Power saving | Power turns off automati | cally when there is no key input fo | or | |
| | | | approximately 10 minutes (this function can bedisabled) | | | |
| General | | Battery check | Battery indicator | | | |
| Specifications | Environmental conditions | | Operating temperature range:-10~50℃, | | | |
| | | | Operating humidity range:20~80% | | | |
| | | | Storage temperature range:-20~+70°C(no condensation) | | | |
| | | | Storage humidity range:5~95%(no condensation) | | | |
| | Laser Class | | CLASS1(IEC 60825-1) | | | |
| | Dimensions and weight ^⑤ | | 76(W)×153(H)×43(D) mm, Approximately300 g | | | |

© Modulation Mode:CW, ambient temperature: 23 ±2°C © RMS (2σ, -20 dB) © In the case of the PC/FC 2m code connection © Continuation Measurement, using alkaline dry cells, at 23°C ±2°C © A protector is removed Note : Specifications are at 23°C ±2°C unless otherwise noted. Optical connector: FC/PC

2

Introduction

The AQ4280 series Optical Light source offers excellent stability, portability and facile adjustments for accurate optical fiber testing.

YOKOGAWA

1st Edition: October 2012(YMI)

All Rights Reserved, Copyright© 2012, Yokogawa Meters & Instruments Corporation

AQ4280 series can be used to test single mode optical fiber of long distance and local network. Also it can work with optical power meter to measure the loss of optical fiber.

Features

- Easy-to-use, straight forward operation
- Eye-catching handheld package
- LCD backlight for easy operation in darker environments



IM AQ4280-02EN

1st Edition

Operation

EE) EE)

| | | 21 |
|------|--------------------------------|---------------------------|
| |) YOKOGAW | A ◆ J |
| | 1310 *** | 220 |
| - 11 | 8.8.8 | . 8 _{dBm} |
| - 11 | ZNOLE THEN | 4070-099 |
| | | |
| 0- | - | -5 |
| 0 | ON A | TWIN |
| | SHIFT CWINX | |
| | | 480.7625mm |
| 3 | AQ4280 OPTICAL LIGHT SOURCE | |
| | | |
| | | |

| No. | Key | Function | |
|-----|------------|--|--|
| 1 | | Switches Instrument on/off. Long Key press over 2 seconds while powering on to activate the instrument without Auto-off function. | |
| 2 | shift | Select CH1 , CH2(Only AQ4280C), CH1 and CH2 can emit light independently. CH which is not used should stop light emitting. | |
| 3 | Claritz | Modulated Wavelength Shifting Key: Switches modulated wavelength and continuous wavelength. | |
| 4 | \searrow | AQ4280A:1310nm, 1550nm AQ4280B:1310nm, 1490nm, 1550nm AQ4280C:1310nm, 1550nm + 1490nm, 1625nm | |
| 5 | TWIN | SINGLE: Auto-wavelength recognition is off. TWIN: Auto-wavelength recognition is on. | |
| 6 | * | Switches backlighting on/off. | |

Back



Consumables

We recommend that you replace the Universal and connector adapters when used 1000 times. The recommended replacement interval can vary greatly depending on the operating environment and the frequency of use. The times are estimated. The accessories are out of warranty.

Maintenance

- >> Please cover the protective dust cap once you finish using.
- > It is a good idea to clean the connector and the instrument when they get dirty through use. Optical cleaning pads and anhydrous alcohol is recommended. And please be careful not to get the detergent inside the instrument.
- Periodic calibration is an effective means of keeping the instrument performing correctly for a long time and of detecting malfunctions at an early stage.
- \gg We recommend that you have the AQ4280 calibrated once a year.
- \gg Prohibitions against Actions that Cause Leaking, Ignition and Explosion.
- \gg Do not leave it in a location that is exposed to direct sunlight.
- \gg Do not throw the battery into fire or heat it.
 - When you put the battery in the battery case, make sure that the battery is facing the right direction.
- \gg If you will not use the battery for an extended period of time, remove it from the AQ4280 and store it in a dry place.
- ≫ Please do not stare into beam

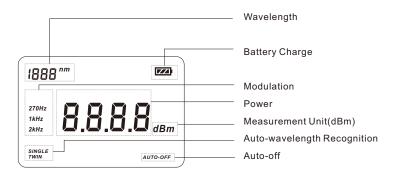
Notes

- 1. The contents of this manual are subject to change without prior notice as a result of continuing improvements to the instrument's performance and functionality. The figures given in this manual may differ from those that actually appear on your screen.
- 2. Every effort has been made in the preparation of this manual to ensure the accuracy of its contents. However, should you have any questions or find any errors, please contact your nearest YOKOGAWA dealer.
- Copying or reproducing all or any part of the content of this manual without the permission of YOKOGAWA is strictly prohibited.

Trademarks

- Microsoft, Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- 2. Adobe, Acrobat, and PostScript are trademarks of Adobe Systems Incorporated.
- 3. In this manual, the TM and R symbols do not accompany their respective registered trademark or trademark names.
- 4. Other company and product names are registered trademarks or trademarks of their respective holders.

LCD



This operation guide focuses on the handling precautions, basic operations, and specifications of the AQ4280.

In addition to this operation guide, the following additional user's manuals for the AQ4280 are provided on the included CD-ROM:

the User's Manual, IM AQ4280-01EN, that explains all the AQ4280 features.

Product Registration

Thank you for purchasing YOKOGAWA products.

YOKOGAWA provides registered users with a variety of information and services.

Please allow us to serve you best by completing the product registration form accessible from our homepage.

http://tmi.yokogawa.com/

4

6