FiMO: Fiber Monitoring System

Fiber MOnitoring system (FiMO) provides trouble shooting and preventive maintenance monitoring fiber network 24 hours a day constantly.

**Features**
- Reduce Down-Time and operational costs
- Detecting alarm point automatically
- Mail sending with graphical waveform
- Showing alarm point on the map
- Web-based access and client software
- High dynamic range and short dead zone
- PON monitoring after splitter
- Server Geo-redundancy

**System Configuration**

- **FiMO server**
  FiMO server located at maintenance center manages multi optical test units at each exchange via network and manages database such as configuration, system information, alarm history and test data.

- **Remote Test Unit**
  Remote Test Unit (RTU) consists of Optical Test Unit (OTU) and Optical Fiber Selector (OFS).
  OTU includes OTDR module for measurement and initial data processing.

- **Remote Client**
  Remote Client provides remote access function by application base and WEB base.
FiMO: Fiber Monitoring System

## Specification

### Optical Test Unit

<table>
<thead>
<tr>
<th>Items</th>
<th>Dark Fiber Monitoring Type</th>
<th>Active and Dark Fiber Monitoring Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Wavelength</td>
<td>(1550 ± 25nm)</td>
<td>(1650 ± 5nm)</td>
</tr>
<tr>
<td>Dynamic Range (Pulse Width: 20μs, Typical)</td>
<td>50dB</td>
<td>41dB</td>
</tr>
<tr>
<td>Event Dead Zone (Pulse Width: 3ns, Typical)</td>
<td>0.8m</td>
<td>0.45m</td>
</tr>
<tr>
<td>Power supply</td>
<td>AC100V – AC240V (50Hz/60Hz) or DC – 48V</td>
<td></td>
</tr>
</tbody>
</table>

### Optical Fiber Selector

<table>
<thead>
<tr>
<th>Items</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optical spec.</td>
<td>Insertion loss: 1.5dB Typical (including dummy fiber and connector)</td>
</tr>
<tr>
<td></td>
<td>Return loss: 40dB Typical (including dummy fiber and connector)</td>
</tr>
<tr>
<td>Optical output port number</td>
<td>16/40/100 port (SC Adapter)</td>
</tr>
<tr>
<td>Built-in Dummy Fiber length</td>
<td>1000m</td>
</tr>
</tbody>
</table>

### Optical Component

<table>
<thead>
<tr>
<th>Items</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>WDM coupler Module</td>
<td>SC type, Monitoring 4 Cores/module</td>
</tr>
<tr>
<td></td>
<td>Insertion loss ≤ 1.0dB Typical</td>
</tr>
<tr>
<td>Filter</td>
<td><em>(SC Pigtail)</em></td>
</tr>
<tr>
<td></td>
<td><em>(1650nm Cut-Off, SC/SCP Pigtail)</em></td>
</tr>
<tr>
<td></td>
<td><em>(Embedded SC Pigtail)</em></td>
</tr>
<tr>
<td></td>
<td><em>(1650nm Cut-Off, SC/SCP Field Installable)</em></td>
</tr>
<tr>
<td></td>
<td><em>(1650nm Cut-Off, SC/SCP Adapter)</em></td>
</tr>
</tbody>
</table>

## Software Function

- **Status Map Display**
- **Alarm Display**
- **Graph Display (PON monitoring)**

Specifications and descriptions are subject to change without prior notice.

---

**Fujikura Ltd.**

1-5-1, Kiba, Koto-ku, Tokyo 135-8512, Japan
Phone: +81-3-5606-1164  Fax: +81-3-5606-1534  http://www.fujikura.co.jp

---

**Fujikura Asia Ltd.**

460, Alexandra Road, #22-01 PSA Bldg., Singapore 119963
Phone: +65-6-271-1312  Fax: +65-6-278-0965  http://www.fujikura.com.sg

---

**Fujikura Europe Ltd.**

C51 Barwell Business Park, Leatherhead Road, Chessington, Surrey KT9 2NY, UK
Phone: +44-20-8240-2000  Fax: +44-20-8240-2010  http://www.fujikura.co.uk

---

**AFL Telecommunications**

260, Parkway East, Duncan, SC29334, USA
Phone: +1-800-235-3423  Fax: +1-800-926-0007  http://www.afltele.com

---

**Indonesia**

Fujikura Asia Indonesia office
Equity Tower Building, 35th Floor
Sudirman Central Business District (SCBD)
Jl. Jend. Sudirman Kav. 52-53
Jakarta Selatan 12190, Indonesia
Phone: +62 21 2827 7847  Fax: +62 21 2827 7848

---

**Middle East**

Fujikura Middle East Office
King Hussein, Street, Abdali, AQRICO Building 7th Floor, Suite 2
Amman 11192, Jordan
PO Box 923448
Phone: +962(6)566-3226  Fax: +962(6)566-4226

---

**Malaysia**

Fujikura Asia (Malaysia) Sdn. Bhd.
Suite W403, Wisma Consplant, 2, Jalan SS16/4, Subang Jaya, 47500 Petaling Jaya, Selangor, Darul Ehsan, Malaysia
Phone: +60(3)5636-4368  Fax: +60(3)5636-4377

---

**Russia**

Fujikura Ltd. Representative Office in Moscow
Leninsky Prospect 45, Entrance 16, Room 450
Moscow, 119334, Russian Federation
Phone: +7(495)980-7045  Fax: +7(495)980-7046

---

915-0729-947・01-00  Printed in Japan 1104-1104-1000-DNP