

## OPTHERMO FTR3000X-10



| Specifications                    |                                                                  |                                 |                                  |
|-----------------------------------|------------------------------------------------------------------|---------------------------------|----------------------------------|
| <b>Environmental Conditions</b>   |                                                                  |                                 |                                  |
| Operating Temperature             | 0°C TO 40°C                                                      |                                 |                                  |
| Storage Temperature               | -20°C to 60°C                                                    |                                 |                                  |
| Relative Humidity                 | Less than 85%R.H. (non-condensing)                               |                                 |                                  |
| Supplied Power                    | AC-100-240V, 50/60Hz, 50VA Max.                                  |                                 |                                  |
| <b>General Specifications</b>     |                                                                  |                                 |                                  |
| Optical Pulse Wavelength          | 1550nm band                                                      |                                 |                                  |
| Applicable Optical Fiber          | GI 50/125 MMF (ITU-T Rec. G.651)                                 |                                 |                                  |
| Laser Classification              | Class1 (IEC60852-1-2001)                                         |                                 |                                  |
| Applicable Optical Connector      | E2000/APC polished                                               |                                 |                                  |
| Dimensions (excluding protrusion) | Width                                                            | Height                          | Depth                            |
|                                   | 400mm                                                            | 88mm                            | 200mm                            |
| Weight (excluding AC/DC adapter)  | 6kg                                                              |                                 |                                  |
| Color                             | TN-40 (Munsell N-4)                                              |                                 |                                  |
| Contact Output                    | 10 outputs, D-SUB 25 pin, MOS FET Relay                          |                                 |                                  |
| Communication Interface           | LAN                                                              | USB                             | SD Memory Card                   |
|                                   | 1 port (RJ45)                                                    | 1 port (USB1.1 Standard B type) | Class4 or lower, Max. 2GB, FAT16 |
| <b>Measurement Performance</b>    |                                                                  |                                 |                                  |
| Maximum Measurement Length        | 10km                                                             |                                 |                                  |
| Sampling Resolution               | 1m/0.5m/0.25m                                                    |                                 |                                  |
| Spatial Resolution                | 1.2m@ near end                                                   |                                 |                                  |
| Integration Times                 | 2 $\wedge$ 14 to 2 $\wedge$ 26 (Approx. 14 seconds to 3.9 hours) |                                 |                                  |
| Readout Resolution                | 0.01°C                                                           |                                 |                                  |
| Temperature Accuracy              | ±2°C                                                             |                                 |                                  |
| <b>Mechanical Specification</b>   |                                                                  |                                 |                                  |
| Vibration Resistance              | 10-500Hz, 1.5g, .10octave/min, 1 sweep/3axis                     |                                 |                                  |
|                                   | 10-500Hz, 3.0G, 0.25 octave/min, 1 sweep/3axis                   |                                 |                                  |
| Shock Resistance                  | Packaged: Free fall (height: 750mm)                              |                                 |                                  |
|                                   | Unpackaged: Free fall (100mm)                                    |                                 |                                  |

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| <b>OPTHERMO</b>                                                    |                                                                                                                                |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>System Functions</b>                                            |                                                                                                                                |
| Measuring Mode                                                     | PC control mode / self-operating mode                                                                                          |
| Data Output Content                                                | Temperature/ Raman Stokes and Anti-Stokes Selectable                                                                           |
| Self-check Function                                                | Fiber break, internal temperature, LD alarm, APD alarm, Power voltage, SD card over-current, Reference temperature error       |
| Contact Output                                                     | Normally Opened: 8 Outputs for temperature alarm<br>Normally Closed: 1 Output for system alarm<br>1 Output for watch dog pulse |
| <b>Control Software</b>                                            |                                                                                                                                |
| Graphical display of temperature distribution on a real-time basis |                                                                                                                                |
| Abnormal temperature detection and alarm output                    |                                                                                                                                |
| Data storage on hard disk drive                                    |                                                                                                                                |
| Display of temperature trend                                       |                                                                                                                                |
| System error detection and alarm output                            |                                                                                                                                |
| <b>Included with OPTHERMO</b>                                      |                                                                                                                                |
| Power Cord                                                         | 1                                                                                                                              |
| LAN Cable (for continuous measurement)                             | 2m, 1                                                                                                                          |
| USB Cable (for temporary measurement)                              | 1.5m, 1                                                                                                                        |
| Attachments for EIA 19 inch rack                                   | 1                                                                                                                              |
| Pigtail cord with E2000/APC connector                              | 1                                                                                                                              |
| CD-ROM (control software, User's Manual)                           | 1                                                                                                                              |

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