

# In-Line Active Fiber Detector Plus (ILAFID+)

## Fibernet Products

ILAFID+ is a live (active) fibre detector used “in-line” with a fibre optic link to generate an alarm when optical signal is altered for any reason. The operation of the device does not affect the link that monitors (neutral device). It monitors the link and acknowledges immediately through Sensor Traps the Dry Contacts or TTL level digital outputs as well as by e-mail the network supervisor for any optical power variation in the network caused at the physical layer of the installed infrastructure (e.g. cable breakage, faulty patch cord or disconnection, cable bending or tension).



The unit is offered with environmental (temperature & humidity), motion and voltage sensors to monitor and report also local conditions at the installation site.

The control and setup of the device is done through a user-friendly web-based interface. The device offers straight forward connectivity via Ethernet, USB and Wi-Fi ports. SNMP protocol is also available while GSM connectivity is offered as option.

A comprehensive supervisory software “USPER” is also available to monitor efficiently more devices that could be in different geographic locations and various links.

### Features

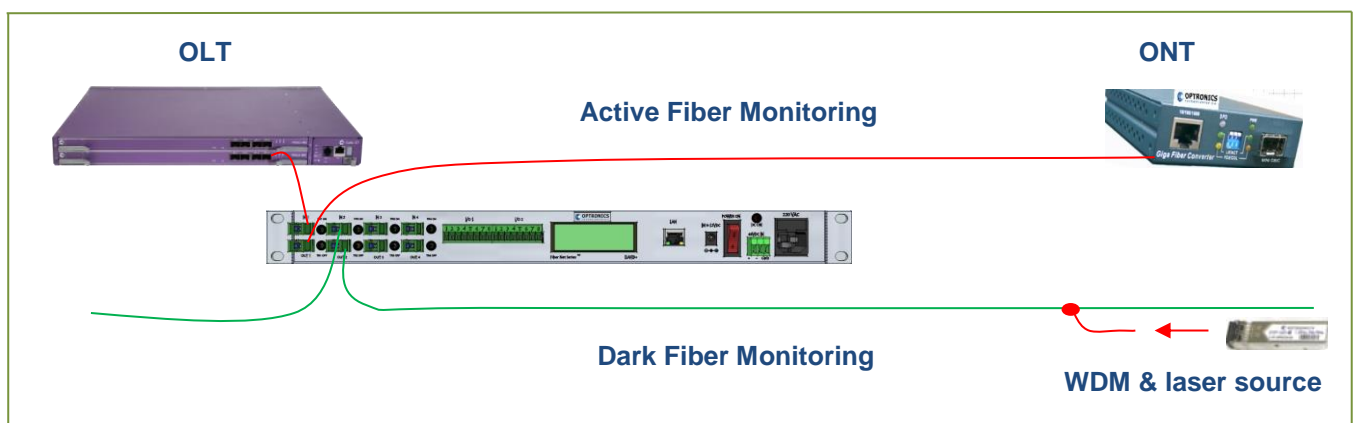
- **Analogue & Digital Output Signal Status**
- **4 Threshold Levels Monitoring Alarms**
- **Direct Optical Power Measurement**
- **Up to 4 f/o links monitored.**
- **Web-based Interface**
- **Environmental Sensors (Temp/Hum/Power/Motion)**
- **SNMP , Ethernet Port, USB, WiFi**
- **Network and Operationally neutral device (ie. No effect on a link if device fails)**

### Applications

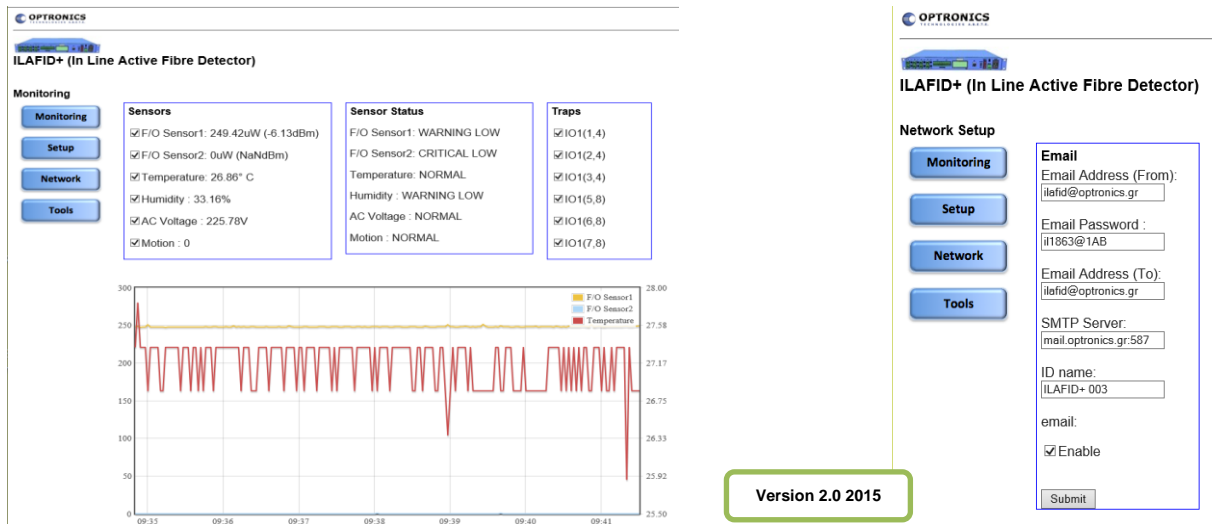
- **Active Fiber Monitoring** is done with ILAFID+ by connecting the network transmitting fiber in between the network equipment (OLT-ONT).
- **Dark Fibre Monitoring** is done by use of additional external source and passive WDM
- **Mobile Backhauling Monitoring**
- **Fibre Optic Infrastructure Security**
- **Early Warning on Damage Potentiality**

**Product Code: ILAFID+**

### Connection Schematics



## Web User Interface



## Sensors

ILAFID+ is offered with standard Temperature/Humidity, Motion and Mains Voltage sensors. Additional **environmental and electrical sensing** Air flow, Water leakage/flood, Electrical Power (voltage/current) by use of suitable sensors.

## Specifications

### Optical Specs:

Coupler:	1x2 fused technology 99/1 % (90/10, 50/50, 70/30)
Fibre Type:	Single Mode 9/125µm
Wavelength:	1310 & 1550 nm
F.O. Connectors:	SC/APC Single Mode (Options: SC/PC, LC/PC)
Min.Detection Power @ fiber end:	-32dBm, Insertion Loss: 1.5 dB (splitting ratio not included)

### Electrical Specs:

Power supply:	12 VDC (in) (options: 48VDC)
Status Output:	Relay Output (TTL High/Low and Dry Contact) ,
Visible indicator:	LED: Green when light is present / Amper when ALARM
Electr.Connectors:	Wire Terminal Block (Eurostyle)

### Mechanical Specs:

Dimensions:	1U /19" rack mounted (44x4.5x24cm) ETSI type
Weight:	2500gr (when full capacity loaded)

### Communication Ports

RJ45 Ethernet 10/100Mbps, mini-USB, Wi-Fi

Order Code	Description
ILAFID+1/ 991-SCA/220	1port/ splitting ratio 99/1%, SC/APC connectors /220VAC
ILAFID+4/ 991-SCA/220	4ports/ splitting ratio 99/1 %, SC/APC connectors /220VAC
PC9125SCA5	Patchcord simplex, single mode 9/125 µm with SC/APC connectors, 5m