

All in One IOT Remote Management

Transforming Data into
Measurable Business Growth

FIBERSENSE© Dark Fiber Monitoring:

Fiber cut and attenuation are major challenges to ensure uninterrupted transmission and connection. FIBERSENSE© solution provides real time consistent monitoring and mapping of the last mile Dark Fiber Optic - an essential factor in ensuring high quality service.

AIO provide highly accurate measurements to easily monitoring and mapping the fiber links. simple and cost effective,

With FIBERSENSE©, you can leverage your service level.



Maim advantages:

- Real time cut connection alert
- Real time attenuation notify alert
- Accurate mapping - Graphic display of fault location.
- Significant shortening of fault and repair time
- Plug and Play to AIO RMS / AIOT© solution

The AIO-FBR-DB is used to test the fiber loop up to 10km (single-mode fiber).

The unit monitoring continuously the fiber line quality for line attenuation and line cuts.

The system generates real time alarms in case of:

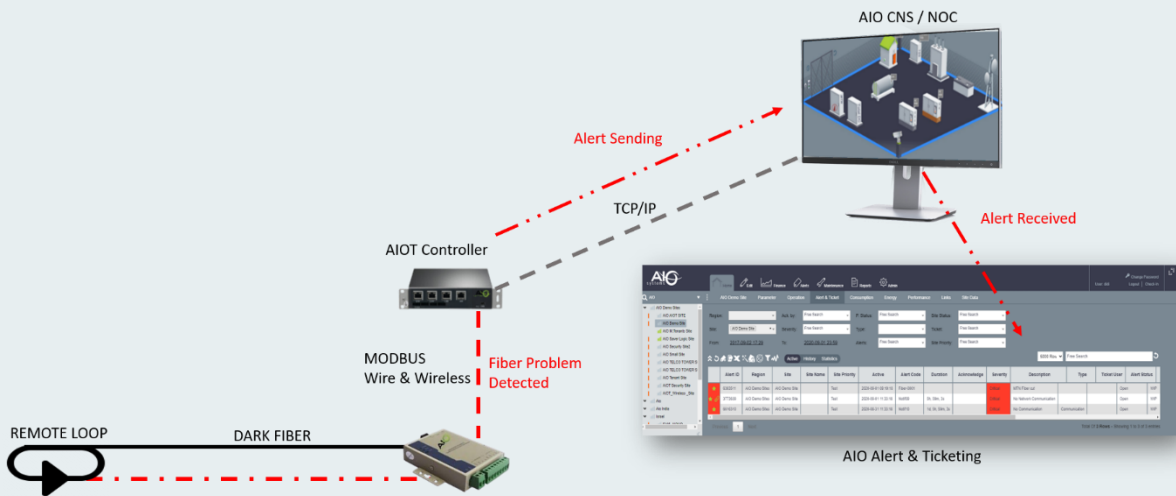
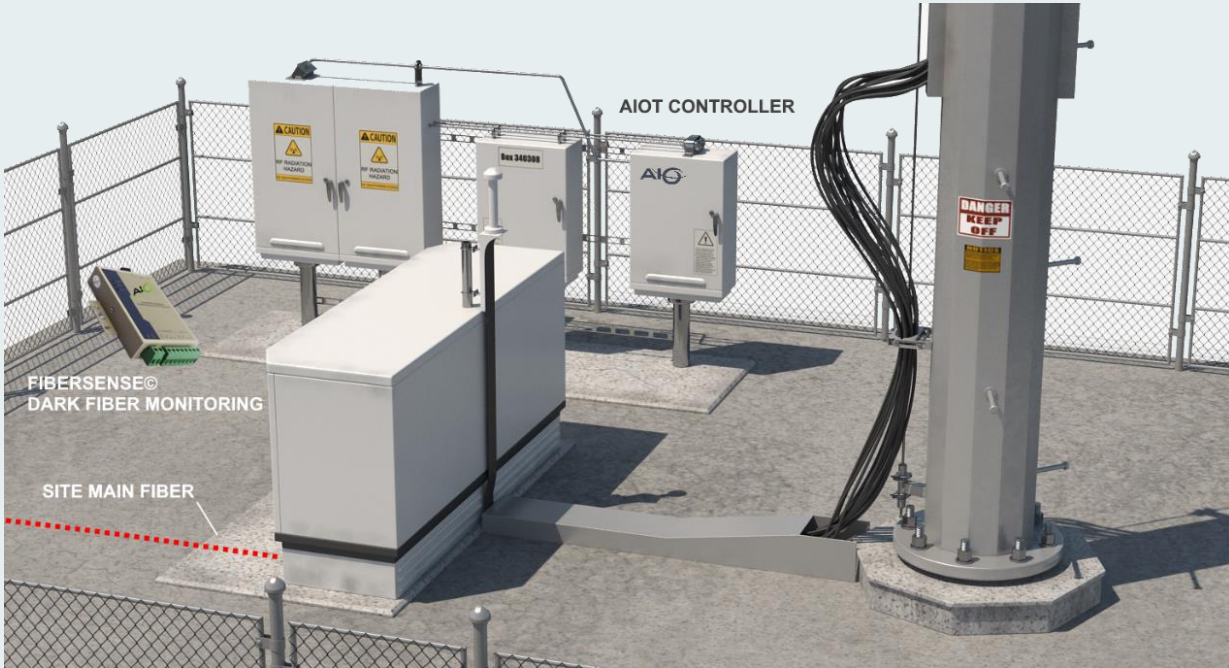
- Cut (signal LOS)
- Signal power (dB) out of threshold range (Low / High alert)

Fiber Cyber Security

Both options of AIO solution working on Dark Fiber from a single point in the site, this provides No physical connection and interference to the active Fiber lines and One-way transmission only



Application Note – Environmental Management Solution:



*Disclaimer: * Specifications subject to change without prior notice * Voltage supply can only be within specified range. Peaks above 72V require additional surge protection which isn't included



SPECIFICATIONS

Full API so we can display the fiber root in our CMS

Power Requirements

Input Voltage 24VDC
Consumption 110mA

Communication

Monitor unit Over dark fiber
Controller Over TCP

Environmental

Operating Temperature -40°C to 85°C
Storage Temperature -40°C to 85°C
Relative Humidity 5 to 95%

Physical

Dimensions (L x W x H) +- 100*69*22mm

General

RS 485
Connector Terminal Block
Fiber Optic
Fiber Connector LC
Fiber Optic Cable Requirements
Single mode: 8.3/125, 8.7/125, 9/125 or 10/125µm
Wavelength Single mode: 1310nm
Tx Output Single-mode: >-5dBm
Rx Sensitivity Single-mode: -25dBm
Point-to-Point Transmission Half-duplex
Ring Transmission Half-duplex

For additional information please contact
info@aiosystems.com

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