



Pole Mounted Electro-Optics Interface Module (EOM)



Pole mounted EOM in NEMA enclosure

The Technology

Airak's pole mounted electro-optics module (EOM) represents a cutting-edge signal-conditioning unit that is uniquely designed to interface with Airak's optical sensors. By utilizing robust telecommunication components, a very reliable optical signal is generated, which is modulated by the sensor. The modulated light is recovered and signal processed by the EOM.

Numerous options are available to meet the needs of the application. These options include:

- MODBUS Control
- Specialized Signal Processing
- Multiple Light Source Selections
- Analog or Digital Outputs
- Web Based Configuration
- Multiple Units in a Rack Enclosure

The Market Opportunity

Commercial applications for monitoring / electrical load currents on overhead lines and pad-mounted transformers and switchgear.

The Benefits

- **Quick to Install**– *EOM and sensors can be installed in less than 30 minutes*
- **Safe to Install**– *The sensor does not conduct electrical current*
- **Easy to Install**– *installed by one person in a bucket*
- **Flexible Signal Processing** – *processing can be specialized for specific applications such as harmonic analysis, power quality event monitoring, statistical measurements, and/or*

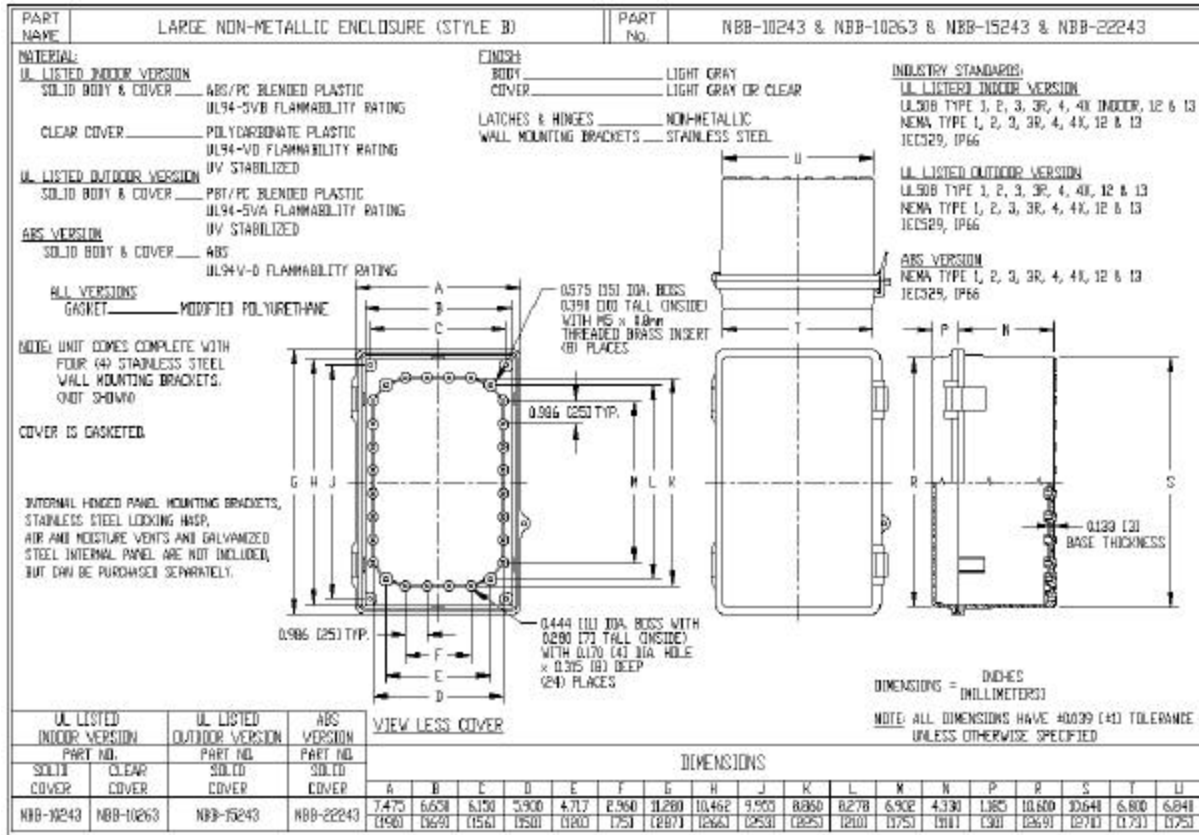
- *automatic threshold notification/alarming events*
- **Reduced EMI/RFI** – *the all-optical transducer configuration means that electrical noise is not picked up and transmitted to the conditioning module via interconnected wires*
- **“Internet Ready”** – *each electro-optic module is ready to be connected to the Internet or an intranet via an RJ-45 Ethernet port*
- **Automated Self Test** – *the EOM continually monitors the integrity of the transducer and its own internal systems and will raise an alarm if any parameters are out of specification*
- **External Temperature Monitor**- *measures outside temperature*

Additional Information

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ODMS-E Specifications

Pole Mount Enclosure P/N = NBB-15243



Electrical Characteristics

Primary power input voltages:
 Maximum power draw:
 Nominal power draw:
 Warm up time for maximum accuracy:
 Frequency response:

120 VAC
 43W @ 115VAC/60Hz
 12W @ 115VAC/60Hz
 15 min
 6 Hz to 5 kHz

Mechanical Characteristics

Dimensions H x W x D
 Weight

11.28"x 7.47"x 5.5"
 about 3.2 lbs¹

Enclosure Details

Enclosure Type:
 Enclosure Color:

NEMA 4 (STYLE B)
 GREY

Ambient Characteristics

Operating Temperature:
 Storage Temperature:
 Humidity:

-20°C - +80°C
 -40°C - +80°C
 0 to 95% non-condensing

Installation features:

Installed using two 1/4 -20 lag bolts
 LED blinking light indicates operating EOM

¹ Depending upon configuration