



GEELONG FORESHORE



3.3.2 Climate (Temp, Humi, Pres, Lux) Monitoring (Sensor)

Purpose

Climate factors have a major impact on the health and wellbeing of communities; by measuring temperature, humidity and pressure in the public space, authorities can proactively encourage positive outcomes.

Current models accommodated in the MTM offer durable, impact-resistance and low-maintenance monitoring sensors. Data is then transmitted in real-time via the cloud, and can be monitored and analysed through ENE.HUB's Central Management System, e³.

The SMART.NODE™ MTM can host luminosity sensors needed to adopt smart lighting strategies. Smart lighting is a key Smart City application, whereby municipalities can save money and energy by dimming lights during low traffic hours, while enhancing security by lighting dark areas when foot or vehicle traffic is detected.

Current models can measure precise light intensity information ranging from 0.1 to 40,000 lux, and directional sensor probes can be easily adjusted for best results.

Equipment List

Device used to collect climate monitoring data is as follows:

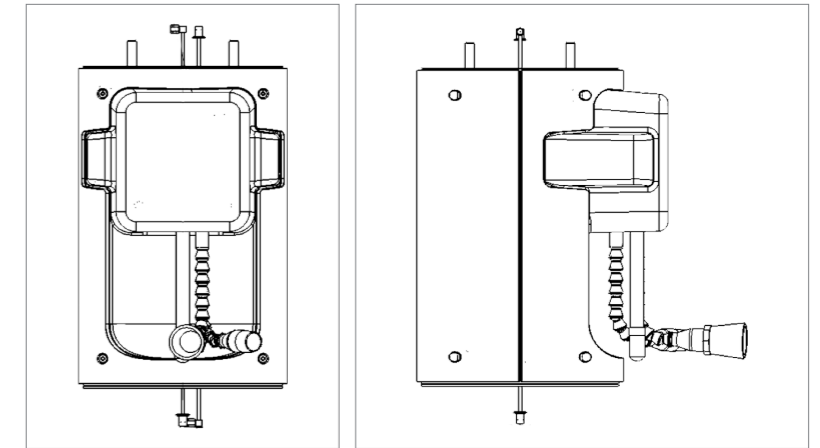
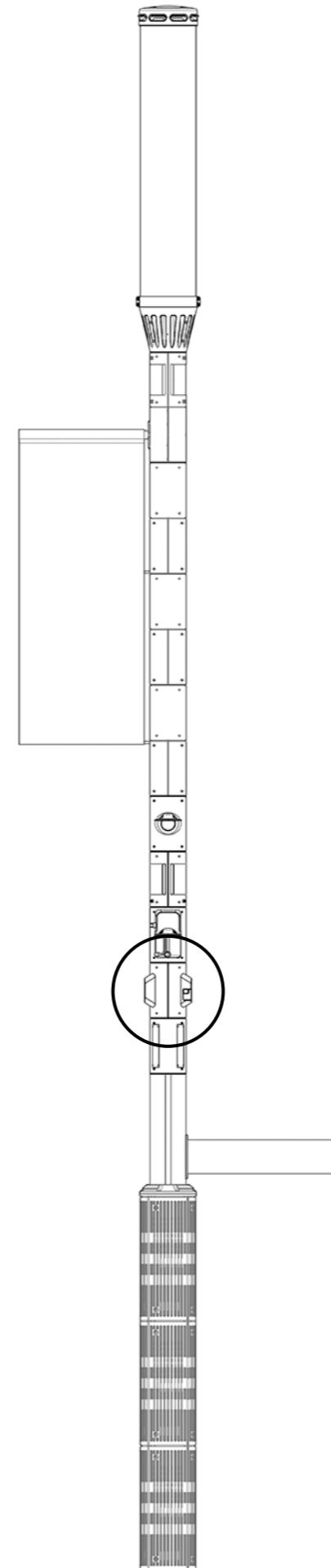
- Libelium

Control System

Climate monitoring data is visualised, controlled and analysed through the e³ CMS platform.

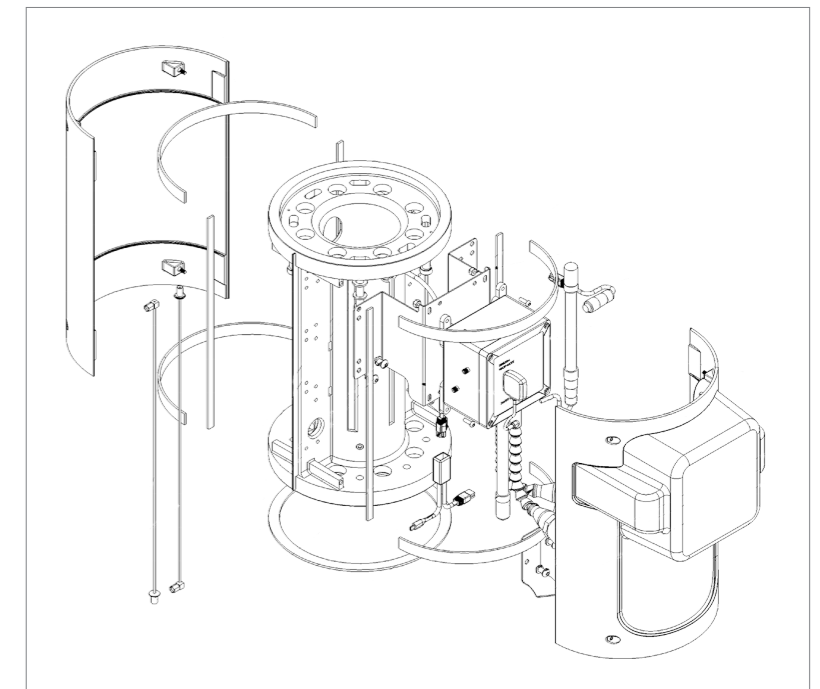
Performance Data

For detailed information please refer to the product specification datasheet.



CLIMATE (SENSOR)
SIDE VIEW

CLIMATE (SENSOR)
FRONT VIEW



CLIMATE (SENSOR) EXPLODED VIEW

Climate Monitoring Access Points Currently Accommodated by SMART.NODE™			
The climate sensor communicates via the Waspnote and CMS platform allow for the remote collection of data from the temperature, humidity, pressure, and lux. This data is received at changeable interval over a 24-hour period.			
Brand	Model	Specifications Summary	
Libelium	BME280 Temperature, Humidity and Pressure Sensor	Pwr Consumption	3.3vDC @ 200mA PoE+ (802.3at)
		Output	Temperature (-40 to +85 degrees) Humidity Relative (0 to 100%) Pressure (30 to 110 kPa) Luminosity (0.1 to 40000 lux)
		Dimensions	150(L) x 15(R)
		Communication	Via Waspnote

THE TECHNOLOGY ACCOMMODATED BY THE SMART.NODE™ IS CONTINUOUSLY EVOLVING. ENE.HUB CAN INVESTIGATE THE ACCOMMODATION OF ADDITIONAL SMART CITY SERVICE DEVICES.