

# Meya Ambient

## HANDHELD INDICATOR CUM IoT Device

The Meya Ambient is a Colour TFT indicator cum IoT enable device with built in Multiple ambient sensors. Each sensor has industry grade precision for continuous long time operation.



## FEATURES

- Ambient Sensors - Temperature, Barometric Pressure, RH, Humidity, eCO2 Emission.
- 260 to 1260 hPa absolute range for Barometric pressure
- Ultra-compact piezoresistive absolute pressure sensor which functions as a barometer
- Digital multi-pixel gas sensor for air quality measurement
- eCO2 range measurement 400 ppm to 60000 ppm
- Embedded Humidity & Temperature Compensation
- RTC for Time Stamp.
- Optional Battery or Mains Powered (With Adaptor)
- Colour TFT for clear and pleasing visibility suitable for both Indoor/Outdoor viewing
- Data Sharing over Wi-Fi



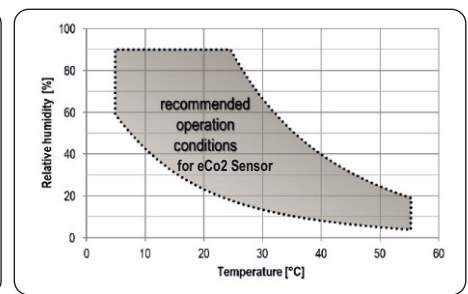
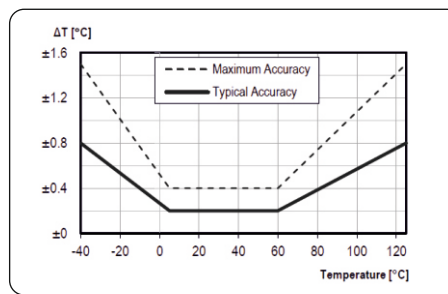
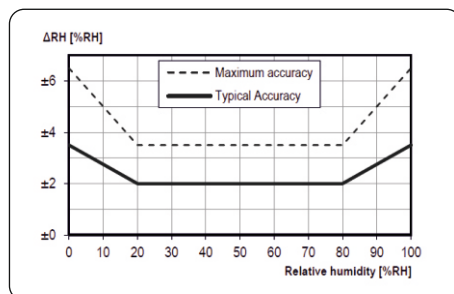
## TECHNICAL SPECIFICATION

Meya Ambient	
Power Supply	USB Powered (Type - C)
Processor	32-bit 144 MHZ ARM Cortex M4F processor
Connectivity	Wi-Fi - HTTP / MQTT / any other
Antenna	Internal antenna with 2.5 DBI max gain
Operating temperature	-40°C ~ +85°C
Ingress Protection	IP 54
Sensors Specification	
<b>Humidity</b>	0% ~ 100% Rh
<b>Temperature</b>	-40°C ~ 125°C
Accuracy	±2% Rh, ±0.2%°C
Response Time	τ63% 8 Sec
eCo2 Range	400 ppm ~ 60000 ppm
Ambient Pressure Sensor Range	260 ~ 1260 hPa
Battery	3.7V, 1150 mAH Lithium Ion Rechargeable Battery



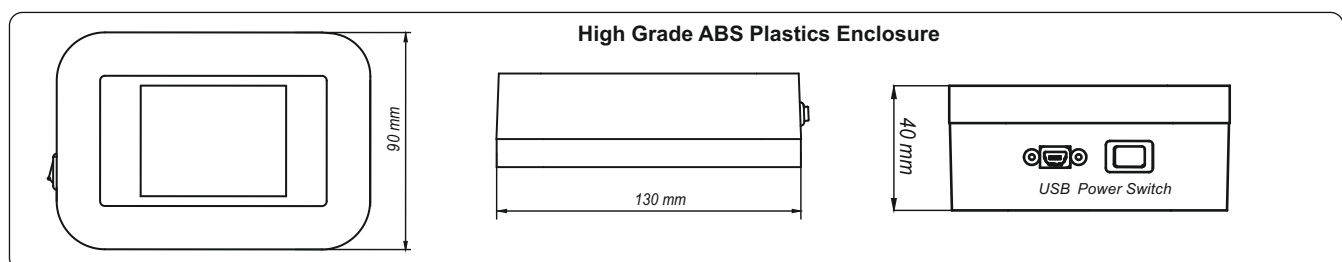
Humidity	Condition	Value	Unit
Accuracy tolerance	Typ.	±2.0	%RH
	Max.	Below Graph	%RH
Repeatability	-	0.1	%RH
Resolution	-	0.01	%RH
Hysteresis	-	±1	%RH
Specified range	extended	0 to 100	%RH
Response time	τ 63%	8	S
Long-term drift	Typ.	<0.25	%RH/y

Temperature	Condition	Value	Unit
Accuracy tolerance	Typ.	±0.2	°C
	Max.	Below Graph	°C
Repeatability	-	0.1	°C
Resolution	-	0.01	°C
Specified range	-	-40 to +125	°C
Response time	τ 63%	<5 to 30	s
Long-term drift	Typ.	<0.02	°C/y



Performance Graph for Humidity & Temperature sensing

## DIMENSION DETAILS



Specifications are subject to change without Prior notice