



PRODUCT DESCRIPTION

Metis is an Intelligent controller that is used in HVAC and BMS devices such as Chiller, Pumps, Cooling towers, AHU, STP, WTP etc. This device is smart enough to control all devices with its inbuilt algorithm.

FEATURES

HVAC

CHILLER PLANT MANAGEMENT (CPM) using multiple add-on cards using wired/wireless peer-peer integration.

Pump integration modulates the speed of the pump based on the sensor feedback, differential pressure transmitters, and flow meters.

According to the wet bulb temperature and ambient conditions, the CONTROLLER decides the operation of cooling towers and their running speed by controlling the associated VFDs.

Temperature sensor-based actuator controller with an efficient energy management system using Delta T and water balancing algorithms

GENERAL SPECIFICATIONS

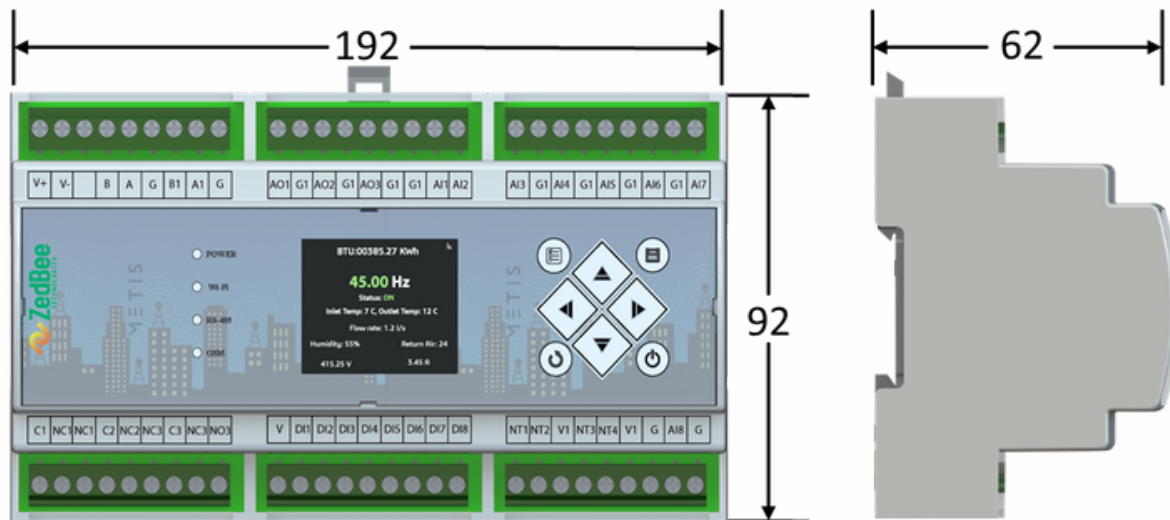
DIMENSIONS	160 X 91 X 62 MM (LXWXH)
APPLICATION	HVAC (Low-Side, High-Side Integration) Building Management System (BMS)
INSTALLATION	din rail mounting following din 43880 (top hat rail en50022)
OPERATING CONDITION	0°C to 50 °C, 10-90 % RH, non-condensing, Degree of protection: IP40, IP20 (terminals)
INTERFACE	1x RS-485 Modbus RTU (Master or Slave) 1x RS-485 Modbus RTU (ext-BMS integration) 1x Wireless EXT-Cards Integration 1x WIFI (Cloud) 1x GSM (Cloud)
DISPLAY	1.8-Inch TFT Display Membrane switch for local operation
MAX N: OF EXT-CARD	18 Nos (Peer to peer) Up to 256 Nos of wireless IO

SPECIFICATIONS

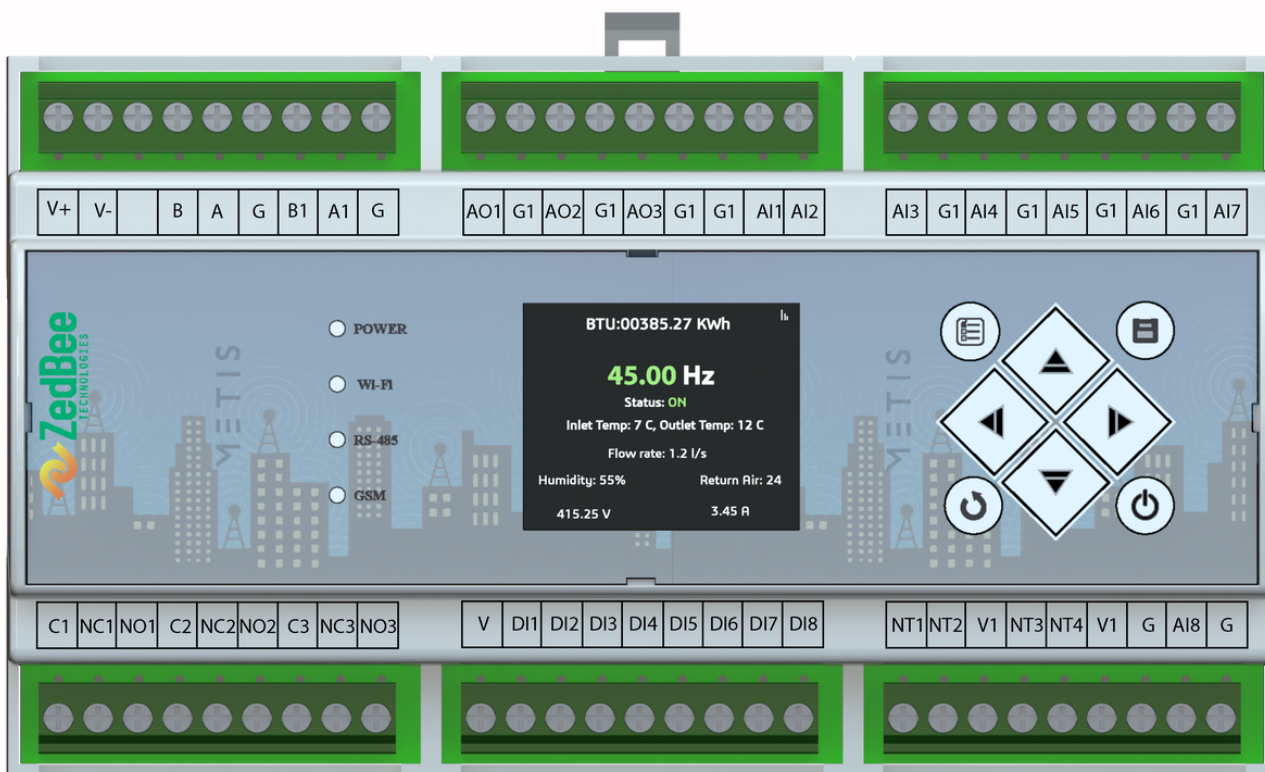
MODEL NUMBER	ZBMETWG-RY22
MEMORY	16MB Flash memory 7 Days data backup in case of network failure
POWER SUPPLY	12 VDC/2 AMPS
NTC	4 Nos-3K
DI	8 Nos-5VDC
DO	3 Nos-24VDC/5AMPS
AI	4 Nos-4-20mA 4 Nos-0-10VDC
AO	3 Nos-10V@50mA Max

ZBMETWG-RY22

DIMENSION



IO DETAILS



CONNECTOR

DESCRIPTION

+V	+12VDC Input power supply
-V	Power supply reference
G	Power supply common
B	(-)Terminal for RS485 connection to IO card
A	(+)Terminal for RS485 connection to IO card
B1	(-)Terminal for RS485 connection to EXT-BMS
A1	(+)Terminal for RS485 connection to EXT-BMS
G1	Common for analog Output/Input
AO1	Analog Output.1 ,0 TO 10V
AO2	Analog Output.2 ,0 TO 10V
AO3	Analog Output.3 ,0 TO 10V
AI1	Analog Input.1 ,4 TO 20ma
AI2	Analog Input.2 ,0 TO 10V
AI3	Analog Input.3 ,0 TO 10V
AI4	Analog Input.4 ,0 TO 10V
AI5	Analog Input.5 ,0 TO 10V
AI6	Analog Input.6 ,4 TO 20ma
AI7	Analog Input.7 ,4 TO 20ma
AI8	Analog Input.8 ,4 TO 20ma
C1	Common for relay.1
NC1	Normally close contact for relay.1
NO1	Normally open contact for relay.1
C2	Common for relay.2
NC2	Normally close contact for relay.2
NO2	Normally open contact for relay.2
C3	Common for relay.3
NC3	Normally close contact for relay.3
NO3	Normally open contact for relay.3
V	5 V for Digital inputs
DI1	Digital input.1 ,5 VDC
DI2	Digital input.2 ,5 VDC
DI3	Digital input.3 ,5 VDC
DI4	Digital input.4 ,5 VDC
DI5	Digital input.5 ,5 VDC
DI6	Digital input.6 ,5 VDC
DI7	Digital input.7 ,5 VDC
DI8	Digital input.8 ,5 VDC
VI	2.5V For NTC Inputs
NT1	Passive Analog Input.1(NTC-3K)
NT2	Passive Analog Input.2(NTC-3K)
NT3	Passive Analog Input.3(NTC-3K)
NT4	Passive Analog Input.4(NTC-3K)