

# TR80 MODBUS WALL MODULES

The Honeywell TR80 wall module delivers superior convenience, comfort, and energy management. Honeywell TR80 wall module includes onboard Temperature & Humidity Sensors to display precise temperature and humidity measurements. It also offers an integrated HVAC Display, Light, and Blindcontrols.



## FEATURES AND BENEFITS

Onboard temperature and humidity sensors. Possibility to display air quality parameter with external sensors.

Intuitive interface with 10 capacitive touch keys. With dedicated touch keys for light and blind.

Multiple occupancy modes for user comfort and energy saving.

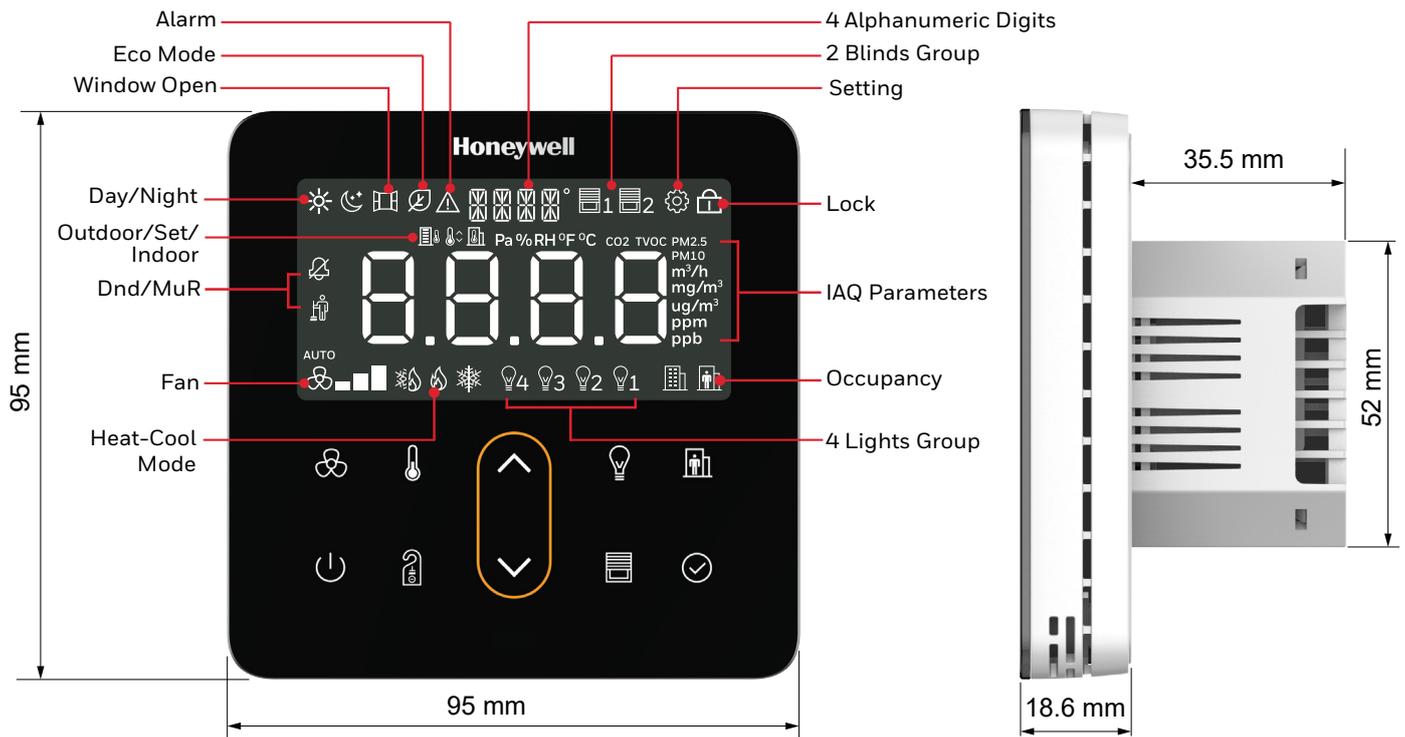
Easy to clean and disinfect bezel-less glass front to ensure user's safety and hygiene.

Dual Modbus: Open Modbus RTU communication for Controller and DALI64.

Available in classy black and white color offering to replace the clutter on your wall which provides one unified room control and delightful user experience. The user-friendly intuitive display and dedicated 10 capacitive touch keys of the device help to achieve the perfect balance between Energy Efficiency and Comfort. TR80 is an advanced, configurable, connected device with its open industry-standard Modbus communication protocol that allows easy integration with several intelligent building controllers in diverse configurations.

Designed with human experience in mind, it offers ease of operation to occupant or guests with dedicated touch keys for Fan, Temperature, Lights, Blinds, Do Not Disturb, and Clean my Room. TR80 also displays indoor air quality parameters like CO<sub>2</sub>, TVOC, PM<sub>2.5</sub>, PM<sub>10</sub>, Air Flow, and Room Pressure through external sensors. Easy to disinfect and clean bezel-less glass front pane ensures user's safety and hygiene.

## WALL MODULE OVERVIEW



**Honeywell**

# PRODUCT SPECIFICATION

## DISPLAY

PARAMETER	SPECIFICATION
Display Type	Custom multi-segment LCD 72 x 37 mm
Backlight	White LED
Buttons	10 integrated capacitive touch areas
Fascia	Tempered glass

## COMMUNICATION

PARAMETER	SPECIFICATION
Modbus	RS485-1: Modbus RTU Slave for controller RS485-2: Modbus RTU Master for DALI 64 sensor
Baud Rate (bps)	1200/2400/4800/9600/14400/19200/38400

## ELECTRICAL

PARAMETER	SPECIFICATION
Power Supply	24 Vac/dc ± 10%
Power Supply	100 to 230 V AC, 50/60 Hz
Power Consumption (Display ON)	For 24 Vac/dc: 1.1 W For 230V: 4.5 W
Terminal Size	For Power: Up to 16 AWG / 1.5 mm <sup>2</sup> For Modbus: Up to 17 AWG / 1 mm <sup>2</sup>

## OPERATING ENVIRONMENT

PARAMETER	SPECIFICATION
Ambient Operating Temperature	0 to +50°C (32 to 122 °F)
Ambient Operating Humidity	5% to 95% relative humidity (non-condensing)
Storage Temperature	-30 to 65°C (-22 to 149 °F)

## SENSORS AND INPUT

PARAMETER	SPECIFICATION
Temperature setting range	10 to 32°C (50 to 89.6°F)
One configurable input (UI) compatible with	- NTC10K - NTC20K - 0-10Vdc - Voltage-free contact
On-board Temperature sensor accuracy*	± 0.2 °C
On-board Humidity sensor accuracy*	±3% RH from 20-80%RH

\*at 25 °C

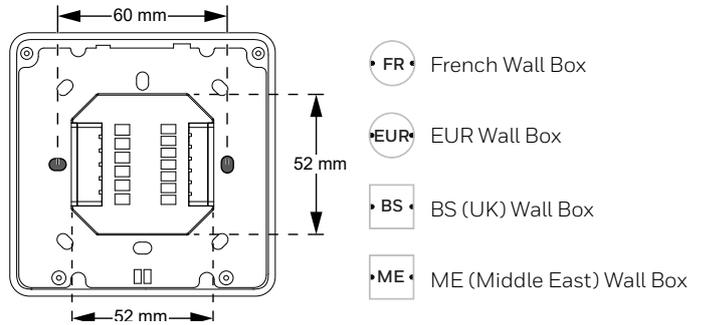
## OTHER SPECIFICATIONS

PARAMETER	DESCRIPTION
IP Rating	IP20
Terminal Connections	Rising cage clamp, Screw terminal
Standard and Compliance	CE UKCA RoHS
Material of Casing	Flame retardant Polycarbonate (PC)

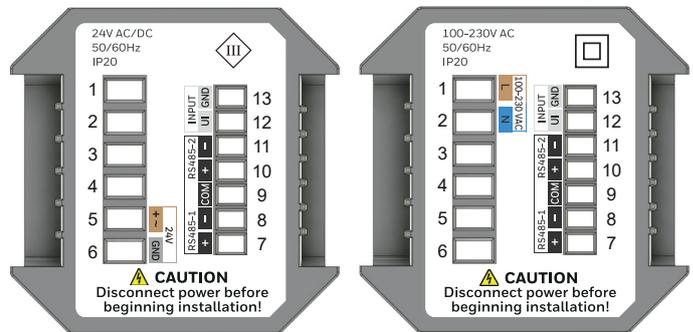
# INSTALLATION DETAILS

## WEIGHT AND DIMENSIONS

PARAMETER	SPECIFICATION
Dimension (L x W x D)	95 x 95 x 54 mm
Weight	256 grams
Minimum depth of Wall box	47 mm



## TERMINAL WIRING



NOTE: Further details are available at <https://hwll.co/8k6q5e>.

## ORDERING INFORMATION

PART NUMBER	FRONT LOGO	COLOUR		POWER SUPPLY	
		WHITE	BLACK	24V AC/DC	230 VAC
TR80UWD		✓		✓	
TR80UWA		✓			✓
TR80BWD	✓	✓		✓	
TR80BWA	✓	✓			✓
TR80UBD			✓	✓	
TR80UBA			✓		✓
TR80BBD	✓	✓	✓	✓	
TR80BBA	✓	✓	✓		✓

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