Functional profile according to BACnet®

The T24-V42(-V02)BACnet room control module is certified by BACnet Testing LAboratories (BTL). The module functions are supplied with the BACnet® network as standardised network variables according to BACnet Application Specific Controller (B-ASC).

Network variable	Type	Instance Number	Read / Write	Availability on V02 or V42	Setting range / selection	Description
Rm_Temp	AI	0	R	V02 & V42	5.0~40.0 °C, step 0.1 °C	Current room temperature
Eco_Mode	BI	0	R	V02 & V42	0: Normal 1: Economy	Economy / normal mode status
Rm_Setpt	AV	0	R/W	V02 & V42	10.0~30.0 °C, step 0.5 °C	Room temperature setpoint
Min_Setpt	AV	1	R/W	V02 & V42	10.0~30.0 °C, step 0.5 °C	Minimum setpoint limitation in Normal mode
Eco_Cool_Setpt	AV	2	R/W	V02 & V42	20.0~30.0 °C, step 0.5 °C	Setpoint of cooling in Economy mode
Eco_Heat_Setpt	AV	3	R/W	V02 & V42	10.0~20.0 °C, step 0.5 °C	Setpoint of heating in Economy mode
Cool_P_Band	AV	4	R/W	V02 & V42	1~3 K, step 1 K	P-band in cooling mode
Heat_P_Band	AV	5	R/W	V02 & V42	1~3 K, step 1 K	P-band in heating mode
Deadband	AV	6	R/W	V02 & V42	0.5, 1.0, 2.0 K	Deadband
Int_Time	AV	7	R/W	V02 & V42	60~300 sec, step 30 sec	Integral action time
3Pt_Float_Time	AV	8	R/W	V42	60~150 sec, step 10 sec	3-point float control time for reheat valve
App_No	AV	9	R/W	V02 & V42	10~62	Application number
Manu_Override	AV	10	R/W	V02 & V42	0: Auto, 1: Fully Open, 2: Fully Close	Manual override functions by BMS
Mod_Reheat	AV	11	R	V42	0-100%	Modulating signal (2-10V) output in %
Act1_Damper_Pos	AV	12	R	V02 & V42	0-100%	Damper position of 1st actuator
Act2_Damper_Pos	AV	13	R	V02 & V42	0-100%	Damper position of 2nd actuator
Act1_Vmax	AV	14	R/W	V02 & V42	0~9999CFM	V'max setting value of 1st actuator
Act1_Vmin	AV	15	R/W	V02 & V42	0~9999CFM	V'min setting value of 1st actuator
Act1_flow	AV	16	R	V02 & V42	0~9999CFM	Actual flow rate of 1st actuator
Act2_Vmax	AV	17	R/W	V02 & V42	0~9999CFM	V'max setting value of 2nd actuator
Act2_Vmin	AV	18	R/W	V02 & V42	0~9999CFM	V'min setting value of 2nd actuator
Act2_flow	AV	19	R	V02 & V42	0~9999CFM	Actual flow rate of 2nd actuator
Act1_Output_St	AV	20	R	V02 & V42	0 (Normal VAV Compact) 1 (VAV Compact don't exist) 2 (Invalid VAV Compact) 8 (Room unit in Service Mode)	Warning signal of 1st actuator
Act2_Output_St	AV	21	R	V02 & V42	0 (Normal VAV Compact) 1 (VAV Compact don't exist) 2 (Invalid VAV Compact) 8 (Room unit in Service Mode)	Warning signal of 2nd actuator
Display_Set	BV	0	R/W	V02 & V42	0: Room temp. & setpoint display 1: Setpoint display only	LCD display in room unit
Rm_Unit_Overid	BV	1	R/W	V02 & V42	0: Disable/ 1: Enable	Room unit to override the Standby mode ordered by BMS
Heat_Cool_ChOv	BV	2	R/W	V02 & V42	0: Cool/ 1: Heat	Heating / cooling mode changeover (only apply for application 20 & 22)
Module_Mode	BV	3	R/W	V02 & V42	0: Standby/ 1: Normal	BMS request Standby / Normal
Heater1_State	BV	4	R	V42	0: Off 1: On	Heater1 status
Heater2_State	BV	5	R	V42	0: Off 1: On	Heater2 status
Fan_State	BV	6	R	V42	0: Off 1: On	Fan status
Rm_Unit_State	BV	7	R	V02 & V42	0: Standby 1: Normal	Room Unit status
Override_State	BV	8	R	V02 & V42	0: Room unit in Standby mode 1: Room unit in Override enable	Room unit to override the Standby mode ordered by BMS (1 to 12 hrs override mode to normal setpoint operation)

Note: * The LCD will display "Err" message when using invalid actuator series
V02 = T24-V02BAC, V42 = T24-V42BAC