

Functions

Functions	boss (BMHS****0)	boss-mini (BMEST****0)	boss-micro (BMBS****0)
			
Hardware			
Built-in Wi-Fi connectivity to mobile devices	YES	YES (depending on the model)	
Video output	VGA/Display Port	micro HDMI (depending on the model)	NO
Two Ethernet ports (separate LAN/Internet connections)	YES		
Built-in backup memory expansion	YES (uSD)	YES already included on BMEST**LE0 models	YES (uSD)
Embedded RS485 ports	2 optically-isolated	1 opto-isolated 1 not opto-isolated	1 opto-isolated 1 not opto-isolated
Built-in digital input	YES	NO	YES
Temporary IP address / reset button	NO	YES	YES
Built-in digital outputs	3 relays with changeover contacts N.O./N.C.	3 outputs powered at 24 Vdc	2 outputs powered at at 24 Vdc
USB host ports	6 (2 front and 4 rear)	1	1
Status LED	8 front (status and I/O)	2 front (status)	8 front (status, I/O, wireless signal)
Possibility to connect external USB peripherals	YES		NO (not necessary)
Power supply voltage	100-240 V ~ 50-60 Hz (power supply module input)	24 Vdc	24 Vac/Vdc
Software			
Minimum variable sampling time	5 sec	30 sec	30 sec
Maximum number of devices and variables that can be logged	300/3500	50/500	30/300
Responsive pages	YES		
Graphic customisation via HTML5/SVG technology	YES (using c.web tool)		
Web connection with encrypted protocol (HTTPS)	YES		
Third-party device integration	YES (using device creator tool)		
Modbus TCP/IP protocol - RTU client	YES		
Send notifications	Email, SMS, Telegram		
Manual and/or automatic reports in CSV and PDF format	YES		
Scheduled activity management	YES		
Languages available	Italian, English, German, French, Spanish, Portuguese, Russian, Turkish, Chinese, Polish, Danish, Swedish, Japanese, Hungarian, Dutch, Korean		
Maximum number of extra functions that can be enabled (plug-ins)	20	4	3
Extra functions that can be enabled (plug-ins)			
Data synchronisation with Carel RED optimise			
Field and BMS protocols: BACnet client (MSTP and TCP/IP), BACnet server (TCP/IP), Modbus RTU server, Modbus RTU TCP/IP server, SNMP Manager, SMNP Agent			
Cloud protocols: MQTT, Microsoft Azure agent, XML server, XML push			
Custom logic development by customer			
Logical devices / computed variables			
Performance index			
Consumption control and management			
Suction pressure optimisation			
Parametric controllers			
Compressor rack safe restart			
Dew point broadcast			
HVAC unit free cooling optimisation			
Air conditioning unit on/off optimisation			
Optimised management of lights on-off based on outside light			
Optimised unit power management			