

MODINE CONTROLS SYSTEM



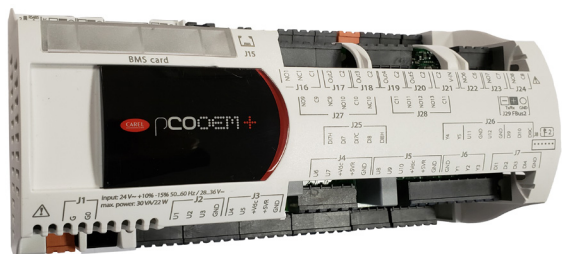
INTELLIGENT CONTROL, SMART CONNECTIVITY

Controls are one of the most important, and often overlooked, components of specialized HVAC equipment. It doesn't matter how advanced or efficient your HVAC products are, if they aren't equipped with customized controls, you may not be getting the most out of your investment.

Modine Controls Systems give end users peace of mind in knowing their systems are equipped with a reliable, proven OEM controls platform, designed and engineered around ensuring maximized performance from the equipment; something that cannot be said for an out-of-the-box control system.

Outstanding performance combined with robust third party integration capability with BACnet and LonWorks protocols, the Modine Controls System is a clear advantage.

- ▼ Modine's experienced team of engineers program the Modine Controls System package at the factory, ensuring the product is set up to deliver optimum performance the moment it is turned on.



MODINE CONTROLS SYSTEM

THE MODINE CONTROLS SYSTEM ADVANTAGE

Maximize Efficiency and Operation

- Controls are optimized for the equipment, eliminating the limitations of a non-OEM control system
- Energy efficiency is maximized through superior control and sequencing of all system components

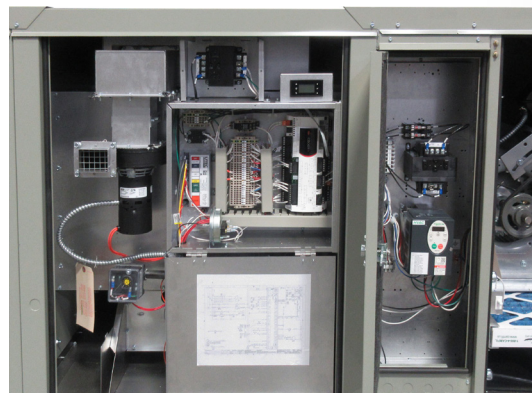
Application Flexibility

- Wide range of application driven control strategies, from space conditioning to heating/cooling/dehumidifying high volumes of outside air
- The Modine Controls System gives end users everything they want in one box from one company
- Third party control flexibility:
 - Compatible with major Building Management Systems such as BACnet MS/TP or IP and LonWorks
 - Allows either supervisory or full unit control
 - For full unit control, the Modine Control System maintains oversight of the system to ensure operation stays within the equipment's safe operating envelope

Serviceability

- Easy-to-follow menu driven system that includes user level, service level, and manufacturer level password protection
- Hand-held user interface makes troubleshooting a breeze, reducing setup, diagnostics, and maintenance quick and easy. Can be mounted remote to minimize trips to the roof
- Operating hours by system (i.e. compressors, supply fan, etc.) along with easy to understand warnings and alarms greatly simplify equipment preventative maintenance
- Select models include advanced diagnostic capability with real time display of key refrigerant pressures, temperatures, condenser sub cooling temperature, and evaporator superheat temperature all but eliminates the need for a gauge set during troubleshooting

Whether your need is an Airedale Classroom HVAC unit or Indirect Gas-Fired Heating and/or Make-Up equipment, you have the assurance of maximized performance thanks to the Modine Controls System.



MODINE CONTROLS SYSTEM MANUAL

Typical BMS System Variables - Analog

Variable Description	Variable Name	Read/Write	Data Type	BACnet	Lon Name	SHVT #	Direction
Supply Air Temperature	Supply_Temp_BMS	R	A	AV1	Supply_Temp	105	out
Space Temperature	spA2_Temp_1_BMS	R	A	AV2	spA2_Temp	105	out
Outside Air Temperature	OA_Temp_BMS	R	A	AV3	OA_Temp	105	out
Outside Air Humidity	OA_Hum_BMS	R	A	AV4	OA_Hum	81	out
Off Wheel Temperature	Off_Wheel_Temp_BMS	R	A	AV5	Off_Wheel_Temp	105	out
Off Wheel Humidity	Off_Wheel_Hum_BMS	R	A	AV6	Off_Wheel_Hum	81	out
Return Air Temperature	RA_Temp_BMS	R	A	AV7	-	-	-
Return Air Humidity	RA_Hum_BMS	R	A	AV8	-	-	-
OA & RA Mixed Temperature	Mixed_Temp_BMS	R	A	AV9	Mixed_Temp	105	out
Mixed Air Humidity	MA_Hum_BMS	R	A	AV10	-	-	-
Temperature Off the Evaporator Coil	Evap_Off_Temp_BMS	R	A	AV11	Evap_Off_Temp	105	out
Building Pressure	Build_Press_BMS	R	A	AV12	Building_Press	8	out
Duct Static Pressure	Duct_Press_BMS	R	A	AV13	Duct_Press	8	out
Temperature reading by serial probe 1	Serial_Probe_Temp_1_BMS	R	A	AV14	-	-	-
Temperature reading by serial probe 2	Serial_Probe_Temp_2_BMS	R	A	AV15	-	-	-
Temperature reading by serial probe 3	Serial_Probe_Temp_3_BMS	R	A	AV16	-	-	-



School service technicians need to only open the doors of their Airedale Classroom HVAC units to have easy access to the controls.



To learn more, visit
www.modinevac.com
or call 800-828-HEAT

Follow us @ModineHVAC
See us at YouTube.com/ModineHVAC/
www.facebook.com/ModineHVAC/
www.linkedin.com/company/modinevac/

Modine Manufacturing Company
1500 DeKoven Avenue
Racine, Wisconsin 53403-2552