

Basalte Deseo Cresnet

Signal Name and Type	Description
Digital input: <Wake_Up>	High/1 (pulse) = Display wake up
Digital output: <Multitouch_Short_Press>	<p>When the Multitouch is enabled, this output indicates that the upper and lower sensor have been pressed and released within the 'Long Press Delay'.</p> <p>The output will pulse High when the sensors are released.</p> <p>High/1 (pulse) = Multitouch press/release</p>
Digital output: <Multitouch_Long_Press>	<p>When the Multitouch is configured as a 'Short/Long Press', this output indicates that the upper and lower sensor have been pressed for a longer time than the 'Long Press Delay'.</p> <p>When touching the sensors, the output will pulse High when the 'Long Press Delay' has elapsed.</p> <p>Both the 'Multitouch mode' and 'Long Press Delay' are set using the 'Basalte Deseo Configuration' module.</p> <p>High/1 (pulse) = Multitouch long press.</p>
Digital inputs: <Mode_Heat_FB> <Mode_Cool_FB> <Mode_Auto_FB> <Mode_Off_FB>	<p>Selects the system mode on the rising edge of the input. The system mode is visible in the upper right corner of the display.</p> <p>High/1 (rising edge) = Select system mode; Low/0 = no effect</p>
Digital outputs: <Mode_Heat> <Mode_Cool> <Mode_Auto> <Mode_Off>	<p>Reports the current system mode after the system mode button is pressed.</p> <p>High/1 = System mode running; Low/0 = System mode not running</p>
Digital inputs: <IsHeating>	<p>Indicates that the system is heating. A high signal will highlight the flame symbol in heating mode.</p> <p>High/1 = Heat running; Low/0 = System not running</p>
Digital inputs: <IsCooling>	<p>Indicates that the system is cooling. A high signal will highlight the snowflake symbol in cooling mode.</p> <p>High/1 = Cool running; Low/0 = System not running</p>
Digital inputs: <Fan_Low_FB> <Fan_Mid_FB> <Fan_High_FB> <Fan_Auto_FB> <Fan_Off_FB>	<p>Selects the fan mode on the rising edge of the input. The fan state is visible in the upper left corner of the display.</p> <p>High/1 (rising edge) = Select fan mode; Low/0 = no effect</p>

Digital outputs: <Fan_Low> <Fan_Mid> <Fan_High> <Fan_Auto> <Fan_Off>	Reports the current fan mode after the fan mode button is pressed. High/1 = Fan mode selected; Low/0 = Fan mode not selected
Analog input: <External_Temperature>	Receives the room temperature from an external sensor. If enabled in the 'Basalte Deseo Configuration' module the temperature can be displayed on the start screen of the Deseo. This value is ignored if the internal sensor is used.
Analog output: <Internal_Temperature>	Reports the ambient room temperature in tenths of a degree Celsius or Fahrenheit. Depending of the report type, the temperature will be updated every 60 seconds, or on every temperature change of 0.5° Celsius. (equal to 0.9° Fahrenheit) The temperature format and report type can be set using the 'Basalte Deseo Configuration' module.
Analog input: <External_Humidity>	Receives the relative humidity from an external sensor. If enabled in the 'Basalte Deseo Configuration' module the humidity can be displayed on the start screen of the Deseo. This value is ignored if the internal sensor is used.
Analog output: <Internal_Humidity>	Reports the relative humidity of the built-in humidity sensor in whole numbers. The humidity report type can be set using the 'Basalte Deseo Configuration' module.
Analog inputs: <Heat_Setpoint_FB> <Cool_Setpoint_FB>	The current heat and cool setpoint temperature to display on the display. Reported in tenths of a degree. In case of auto mode is enabled, it is advised to use single setpoint mode.
Analog input: <Single_Setpoint_FB>	The current setpoint temperature to display on the display. Depending on the active mode, the heat or cool setpoint will be updated.
Analog outputs: <Heat_Setpoint> <Cool_Setpoint>	Reports the heating and cooling setpoint after changing the setpoint by pressing up or down button on the Deseo. Reported in tenths of a degree.
Analog output: <Single_Setpoint>	Reports the setpoint of the active system mode (heat or cool) after changing the setpoint by pressing up or down button on the Deseo. Reported in tenths of a degree.

Analog inputs: <Min_Heat_Setpoint> <Max_Heat_Setpoint> <Min_Cool_Setpoint> <Max_Cool_Setpoint>	Sets the minimum and maximum setpoints allowed to display and report by the Deseo. Reported in tenths of a degree. Default analog values are as follows: Heat setpoint: 380 to 890 (38° to 89°F); or 30 to 320 (3° to 32°C). Cool setpoint: 590 to 990 (59° to 99°F); or 150 to 370 (15° to 37°C).
Serial input: <Clock\$>	This input can be connected to the output of a Clock Driver symbol to make the time of day available on the display.
Serial input: <Message\$>	Sends text string to display on the Deseo. The string will be visible on the display for a time specified in the ' <i>Basalte Deseo Configuration</i> ' module.
Serial input: <Multitouch_Short_Message\$>	Sends text label for display when the Multitouch Short Press is activated.
Serial input: <Multitouch_Long_Message\$>	Sends text label for display when the Multitouch Long Press is activated.
Serial output: <Status\$>	After power cycle of the keypad, this string reports the keypad's software version. If an invalid string is received on the <Configuration\$> input, an error message will be displayed on this output.
Serial output: <Temperature\$>	Reports the ambient room temperature in following format "xx.x". Depending of the report type, the temperature will be updated every 60 seconds, or on every temperature change of 0.5° Celsius. (equal to 0.9° Fahrenheit) The temperature report type can be set using the ' <i>Basalte Deseo Configuration</i> ' module.
Serial output: <Humidity\$>	Reports the relative humidity in following format "xx.x". Depending of the report type, the temperature will be updated every 60 seconds, or on every temperature change of 1% Humidity. The humidity report type can be set using the ' <i>Basalte Deseo Configuration</i> ' module.
Serial input: <Configuration\$>	Needs to be connected to the serial output <Initialize_To_Device\$> on the ' <i>Basalte Deseo Configuration</i> ' module.

Basalte Deseo Configuration Module

Signal Name and Type	Description
Digital input: <Initialize>	When a High pulse is sent on this input, all configured parameters are sent in 1 configuration string to the corresponding Basalte Deseo device. High/1 (pulse) = Send configuration string
Serial output: <Initialize_To_Device\$>	Needs to be connected to the serial input <Configuration\$> on the Basalte Deseo device symbol.
Parameter: <Time Format>	Determines how the time will be displayed on the start-up screen, if enabled. <u>Available settings:</u> 12h 24h
Parameter: <Timeout Display>	Defines the timeout for the display to go in standby. <u>Available settings:</u> 10 – 100 s
Parameter: <Timeout Message>	Defines the timeout for message display. <u>Available settings:</u> 10 – 100 s
Parameter: <Long Press Delay>	Defines the time between a short press detection and a long press detection. Available settings range from 0.5 s to 5.0 s in steps of 0.5 s.
Parameter: <Display Line 1>	Defines the 1 st line of the display on the start-up screen. <u>Available settings:</u> Time Temperature Humidity
Parameter: <Display Line 2>	Defines the 2 nd line of the display on the start-up screen. <u>Available settings:</u> Disabled Time Temperature Humidity
Parameter: <Multitouch Mode>	Defines the mode of the Multitouch. <u>Available settings:</u> Disabled Short Press Short/Long Press
Parameters: <Fan Mode Low> <Fan Mode Mid> <Fan Mode High> <Fan Mode Auto> <Fan Mode Off>	Defines the available Fan modes that can be selected on the Deseo. <u>Available settings:</u> Disabled Enabled

Parameter: < Heating > < Cooling > < Heating Cooling Auto >	Defines the available thermostat modes that can be selected on the Deseo. <u>Available settings:</u> Disabled Enabled
Parameter: < Setpoints >	Dual setpoints will allow 2 individual setpoints for heating and cooling. When using single setpoint, there will be one setpoint equal for all system modes. <u>Available settings:</u> Single Dual
Parameter: < Temperature >	Defines the temperature used to display on the Deseo. <u>Available settings:</u> Internal External
Parameter: < Temperature Sensor >	Defines how the temperature is updated. If enabled, the temperature can be sent every 60 seconds, or on a 0.5° Celsius change. (equal to 0.9° Fahrenheit) <u>Available settings:</u> Disabled Send Cyclic Delta Temp <i>Remark:</i> <i>Please consider a delay of about 20 minutes until you have a correct temperature reading.</i>
Parameter: < Temperature Format >	Defines in which format the temperature will be reported. <u>Available settings:</u> Celsius Fahrenheit
Parameter: < Temperature Compensation >	Due to environmental factors, a temperature offset may be required. Available settings range from -9.5°C to +9.5°C in steps of 0.5°C. (equal to a range from -9.5°F to +9.5°F)
Parameter: < Humidity >	Defines the humidity used to display on the Deseo. <u>Available settings:</u> Internal External
Parameter: < Humidity Sensor >	Defines how the humidity is updated. If enabled, the humidity can be sent every 60 seconds, or on a change of 1%. <u>Available settings:</u> Disabled Send Cyclic Delta 1%
Parameter: < Humidity Compensation >	Due to environmental factors, a humidity offset may be required. Available settings range from -30% to +30%.