It’s all in a name:

The new generation humidity peripherals

An updated line of sensors and controls developed and produced by Neptronic with greater accuracy will soon be in place to complement the new SK4 series. The following is a brief explanation in order to properly understand the difference between them.

The following details each of the products and their features in the new generation of controls:

 High Limit	**SHS20**	**Description:** • Wall mount, room, ON/OFF high limit humidistat • Adjustable set point range: 20-90% RH • Built-in humidity sensor. **Application:** • Standalone application, • Humidifier is supplying steam directly into the space with a space distribution unit (SDU) • To be used as a safety high limit humidistat to shut off the humidifier if the humidity level is above set point. **Wiring:** • Retrofit for SK300/SKR requires 4 wires (common, 24volt power supply input, contact in and out). • New SK4 series requires 3 wires (common, 24volt power supply input, 24 volt output)
 Controller	**HRC20**	**Description:** • Wall mount, ON/OFF humidity controller • Adjustable set point range: 10-60% RH • Built-in humidity sensor. **Application:** In conjunction with an ON/OFF humidifier, it is used to monitor the humidity level in the space. **Wiring:** • Retrofit for SK300/SKR requires 4 wires (common, 24volt power supply input, contact in and out). • New SK4 series requires 3 wires (common, 24volt power supply input, 24 volt output)

	SHS80	**Description:** • Duct mounted humidity sensor with On/Off high limit humidistat • Adjustable set point range: 20-90% RH • 0-10VDC output, with an accuracy of +/-3% sensor • Built-in humidity and temperature sensor **Application:** • To be used as a safety ON/OFF high limit humidistat to shut off the humidifier if the humidity level is above set point, and; • To be used as a VAV high limit humidity sensor to decrease the steam output of the humidifier when air flow is reduced, therefore avoiding air saturation **Wiring:** ON/OFF high limit only • Retrofit for SK300/SKR requires 4 wires (common, 24volt power supply input, contact in and out) ON/OFF and VAV high limit • Retrofit for SK300/SKR requires 5 wires (common, 24volt power supply input, contact in and out, 0-10vdc output). • For SK4 series requires 4 wires (common, 24volt power supply input, 24 volt output, 0-10vdc output)
	HRL24	**Description:** • Wall mounted programmable humidity sensor with LCD • Adjustable set point range: 10-90% RH **Application:** • Monitors the humidity level in the space • Benificial as a less expensive version of the HRO20, since the multi-platform controller on the SK4 series functions as the main control **Wiring:** • 4-wire connection between the humidistat and SK4 humidifier

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Important to note:

- The SHS20 and the HRC20 Wall Mount humidistats will be replacing the W42 (on/off humidistat);
- The SHS80 Duct Mount Humidistat will be replacing the SHH8 (on/off high limit humidistat) and;
- The HRL24 Wall Mount Humidistat will be introduced as a programmable and economic alternative to the HRO20/HROB20.

For additional information about these products, please consult our website in Documentation.

Demystifying the nomenclature:

Our humidity controllers (H) and sensors (S) consist primarily of three to four letters, followed by digits. The tables below offer detailed descriptions of the meaning behind each set of characters:

Humidity controller (H)

Nomenclature	Description
First letter	H: for humidity controller
Second and third letters	RO: Room for wall mount installation RC: Room for wall mount installation, dry contact RL: Room for wall mount installation, LCD feature
Fourth letter	B: BACnet communication
First digit	2: plastic enclosure, dimension 2” x 4”
Second digit	0: 24vac/30vdc power supply 4: 24vac power supply

Humidity sensor (S)

Nomenclature	Description
First letter	S: for sensor
Second letter	H: Humidity
Third letter	C: Conduit H: High limit S: Set point R: Room
First digit	1: plastic enclosure, wall mount, dimension 3” x 3” 2: plastic enclosure, wall mount, dimension 2” x 4” 8: plastic enclosure, duct mount
Second digit	0: 24vac/30vdc power supply

Note: This nomenclature does not permit the user to create a custom humidity controller or sensor by using these descriptions.