



# techsystem

automatyka klimatyzacja wentylacja

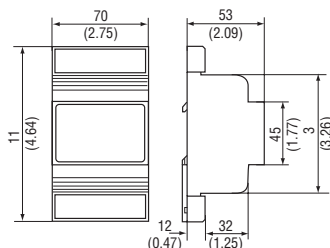
▸ zapoznaj się z naszą ofertą

### Refrigeration Field Controllers

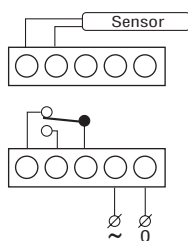
#### System 27 NOVA (1/5)



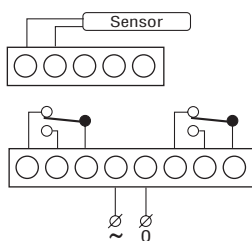
System 27 NOVA



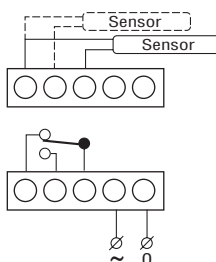
Dimensions in mm (inches)



One-Stage  
Wiring



Two-Stage  
Wiring



Differential Thermostat  
Wiring

#### Description

System 27 NOVA is a family of modern modular electronic modules designed for a wide variety of control configurations in refrigeration, heating, ventilation, air-conditioning and other related fields.

The modular concept was specially designed to make control configuration easier and still offer the flexibility necessary to answer the many individual control requirements encountered today.

The temperature control modules can be used as a stand alone device or together with other modules, such as, stage modules, display modules, time switch modules, etc., to achieve a diverse number of single or multistage applications.

#### Features

- Modular design
- "Plug-in" quick connector wiring system
- Adjustable differential and heating/cooling setting
- Wide range of enclosures for sensing elements
- Attractive DIN-rail mount housing
- Setpoint shift output function

#### Applications

Typical applications are:

- Refrigerated/freezer display cases
- Beverage coolers
- Liquid chillers
- Cold-room storage

#### One-Stage Thermostat, without Sensor - Selection Table

Setpoint Range (°C)	Supply Voltage (-15/+10 %) 50/60 Hz	Additional Features	Ordering Codes
-40 to +40	24 VAC/DC	Mode: Field adjustable Output: SPDT contact 10(5)A 250 VAC Switch Action: Automatic Reset Differential: 0,5 to 15 K Power Consumption: 230 VAC models: 4 VA 24 VAC/DC models: 2 VA Input Signal: From A99 temp.sensor Enclosure: DIN RAIL mount (35 mm), IP20	A27A1N11
10 to 100	24 VAC/DC		A27A1N12
-40 to +40	230 VAC		A27A2N11
10 to 100	230 VAC		A27A2N12
0 to 30	230 VAC		A27A2N14
-20 to 60	230 VAC		A27A2N15

#### Two-stage Thermostat, without Sensors - Selection Table

-40 to +40	24 VAC/DC	Mode: Field adjustable Output: Two SPDT contacts 10(5)A 250 VAC Switch Action: Automatic Reset Input Signal: From A99*-91** temp.sensor Enclosure: DIN RAIL mount (35 mm), IP20 Differential: 0,5 to 5 K Delta Setpoint: 0,5 to 5 K Power Consumption: 230 VAC models: 4,5 VA 24 VAC/DC models: 3 VA	A27A1N21
10 to 100	24 VAC/DC		A27A1N22
-40 to +40	230 VAC		A27A2N21
10 to 100	230 VAC		A27A2N22
-20 to +60	230 VAC		A27A2N25
20 to 60	230 VAC		A27A2N26
-20 to +60	230 VAC		A27A2N27

#### Differential Thermostat, without Sensors - Selection Table

Differential (K)	Supply Voltage	Additional Features	Ordering Codes
0.5 to 10 K	230 VAC	Hysteresis: 0.5 to 10 K Output: SPDT contact 10(5)A 250 VAC Input signal: From A99x-91xx Temperature sensor Power Consumption: 230 VAC Models: 4 VA 24 VAC/DC Models: 2 VA	A27D2N11

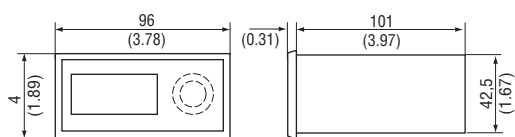
For accessories, see Section Accessories

### Refrigeration Field Controllers

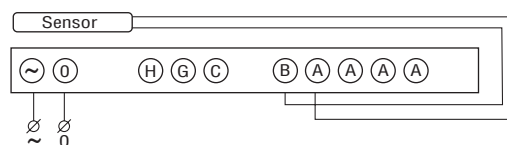
System 27 NOVA (2/5)



D27 Panel Mount



Dimensions in mm (inches)

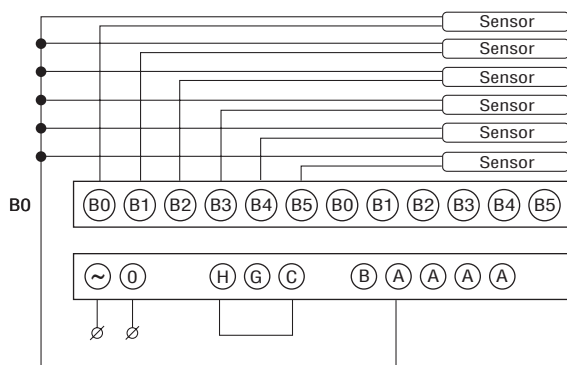


Wiring Diagram

#### Panel mount Display Modules - Selection Table

Range	Supply voltage (-10/+10%) 50/60 Hz	Additional Features	Ordering Codes
-40 to +99 °C	230 VAC	Power Consumption: 230 VAC models: 3 VA 24 VAC models: 1,5 VA Enclosure Noryl™: Panel mount (48 x 96 mm), IP20	<b>D27AF-9100</b>

#### System 27, Display/Selector Modules



Wiring Diagram

#### Panel mount Display/Selector Modules - Selection Table

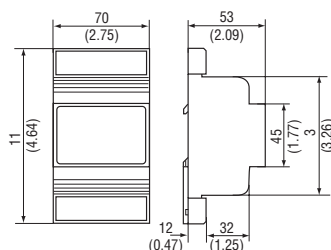
Range	Supply voltage (-10/+10 %) 50/60 Hz	Additional Features	Ordering Codes
-40 to +99 °C	230 VAC	These display to selectors can accept up to 6 sensor	<b>D27AG -9100</b>
		Power Consumption: 230 VAC models: 3 VA Enclosure Noryl™: Panel Mount (48 x 96 mm), IP20 Input: A99x-91xx Temperatuur Sensor	

### Refrigeration Field Controllers

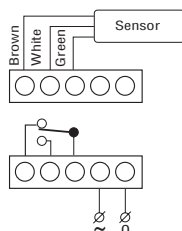
#### System 27 NOVA (3/5)



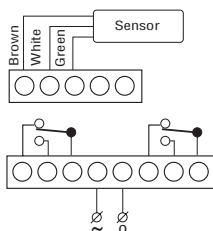
System 27 NOVA



Dimensions in mm (inches)



One-Stage Wiring



Two-Stage Wiring

#### Description

System 27 NOVA is a family of modern modular electronic modules designed for a wide variety of control configurations in refrigeration, heating, ventilation, air-conditioning and other related fields.

The modular concept was specially designed to make control configuration easier and still offer the flexibility necessary to answer the many individual control requirements encountered today.

The humidity control modules can be used as a stand alone device or in conjunction with other modules such as display modules, signal converter modules etc. to achieve a wide variety of single or multiple stage applications.

#### Features

- Modular design
- "Plug-in" quick connector wiring system
- Adjustable differential and humidification/dehumidification setting
- Interchangeable humidity transmitters with different housings
- Attractive DIN-rail mount housing
- Setpoint shift output function

#### Applications

Typical applications are:

- Computer rooms
- Clean rooms
- Fruit storage/ripening
- Food processing;
- Industrial processes.

#### One-stage Humidistat - Selection Table

Setpoint Range	Supply Voltage (-15/+10%) 50/60 Hz	Additional Features	Ordering Codes
10 to 100% R.H.	24 VAC/DC	Mode: Field Adjustable Output: SPDT contact 10(5)A 250 VAC	<b>W27N11</b>
10 to 100	230 VAC	Switch Action: Automatic Reset Differential: 2 to 10% R.H. Delta Setpoint: 0 to 30% R.H. Power Consumption: 230 VAC models: 4,5 VA 24 VAC/DC models: 3 VA Input Signal: Room HT-9000 humidity sensor Enclosure: DIN RAIL mount (35 mm), IP20	<b>W27N21</b>

#### Two-stage Humidistat - Selection Table

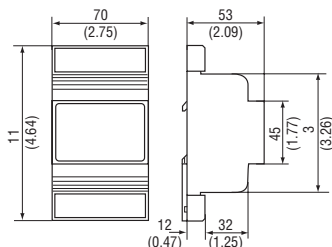
Setpoint Range	Supply Voltage (-15/+10%) 50/60 Hz	Additional Features	Ordering Codes
10 to 100% R.H.	24 VAC/DC	Mode: Field Adjustable Output: Two SPDT contacts 10(5)A 250 VAC	<b>W27N12</b>
10 to 100	230 VAC	Switch Action: Automatic Reset Differential: 2 to 10% R.H. Delta Setpoint: 0 to 30% R.H. Power Consumption: 230 VAC models: 4,5 VA 24 VAC/DC models: 3 VA Input Signal: Room HT-9000 humidity sensor Enclosure: DIN RAIL mount (35 mm), IP20	<b>W27N22</b>

### Refrigeration Field Controllers

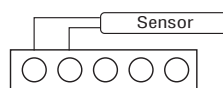
System 27 NOVA (4/5)



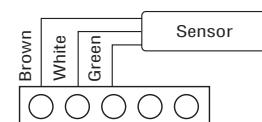
**System 27 NOVA  
Display Module**



**Dimensions in mm (inches)**



**Temperature**



**Pressure /Humidity  
Wiring**

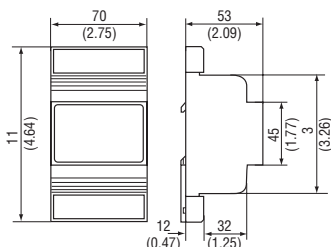
#### Display Modules - Selection Table

Setpoint Range	Supply Voltage (-15/+10%) 50/60 Hz	Quick Connector	Additional Features	Ordering Codes
-40 to +100 °C	24 VAC	No	Enclosure: DIN RAIL mount (35 mm) Power Consumption: 3.5 VA Input temp. displays Temp. sensor: From A99x-91xx	<a href="#">D27A1N1</a>
0 to 99% RH	230 VAC			<a href="#">D27A2N1</a>
-40 to +100 °C			Included	<a href="#">D27W2N4</a>
				<a href="#">D27A2N1Q</a>

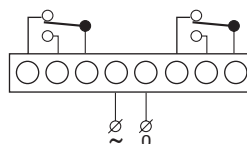
#### System 27 NOVA Stage Modules, Incl. quick connector



**System 27 NOVA  
Stage Modules**



**Dimensions in mm (inches)**



**Wiring**

Mode:	Field Adjustable
Input Signal:	From other System 27 NOVA control modules
Enclosure:	DIN RAIL mount (35 mm), IP20
Relay Rating:	10 (5) A 250 VAC
Power Cons:	230 VAC models: 4,5 VA 24 VAC/DC models: 3 VA

#### Stage Modules - Selection Table

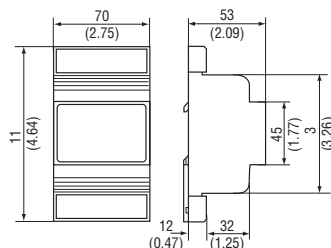
Number of Outputs	Supply Voltage (-15/+10%) 50/60 Hz	Differential (K)	Additional Features	Ordering Codes
2 x SPDT	24 VAC	0.5 to 5	Can be connected only to 1-stage or 2-stage thermostats. Setpoint stage module is related to setpoint thermostat Delta setpoint range: 0,5 to 15 K Max. number of stages connected to a thermostat: 4	<a href="#">S27A1</a>
2 x SPDT				<a href="#">S27A2</a>
1 x SPDT	230 VAC	0.5 to 10 K	Can be connected only to 1-stage or 2-stage thermostats. Setpoint stage module is independent to setpoint thermostat.	<a href="#">S27A3</a>
2 x SPDT		0,1 to 3,5 bar	Can be connected only to 1-stage or 2-stage pressure switch. Setpoint stage module is related to setpoint pressure switch Delta setpoint range: 0 to 4 bar Max. number of stages connected to a pressure switch: 4	<a href="#">S27P2</a>

### Refrigeration Field Controllers

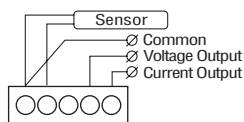
System 27 NOVA (5/5)



**System 27 NOVA  
Signal Converter**



**Dimensions in mm (inches)**



**Wiring**

This converter can be used to transfer an input signal (or part of an input signal) to an output signal of 0 to 10 V or 4 to 20 V

#### Signal Converter - Selection Table

Setpoint Range	Span Range	Supply voltage (-10/+10%) 50/60 Hz	Additional Features	Ordering Codes	
-50/+100 °C	2 / 200 °C	24 VAC	Housing: DIN Rail Mount Output Load: Voltage Output Rmin = 1k Ohm current output Rmax = 500 Ohm Power Consumption: 230 VAC models: 2 VA 24 VAC/DC models: 1 VA	Y27L1	
		230 VAC		Y27L2	
Voltage	Voltage	0 to 10 V		1 to 10 V	Y27M1
24 VAC	230 VAC				Y27M2

#### Staging Relay - Selection Table

Supply Voltage (-10/+15%) 50/60 Hz	Additional Features	Ordering Codes
24 VAC	Input Signal: 0 to 10 VDC Setpoint Range: 5 to 95% (0,5 to 9,5 VDC) Differential Range: 5 to 60% (0,5 to 6 VDC) Automatic Reset Mode: Field Adjustable Enclosure: DIN RAIL mount (35 mm) Output: Two SPDT contacts 10(5)A 250 VAC Power Consumption: 230 VAC models: 4,5 VA Time Delay: Stage 1: 1 second Stage 2: 2 seconds	SR-9100-1
230 VAC		SR-9100-2