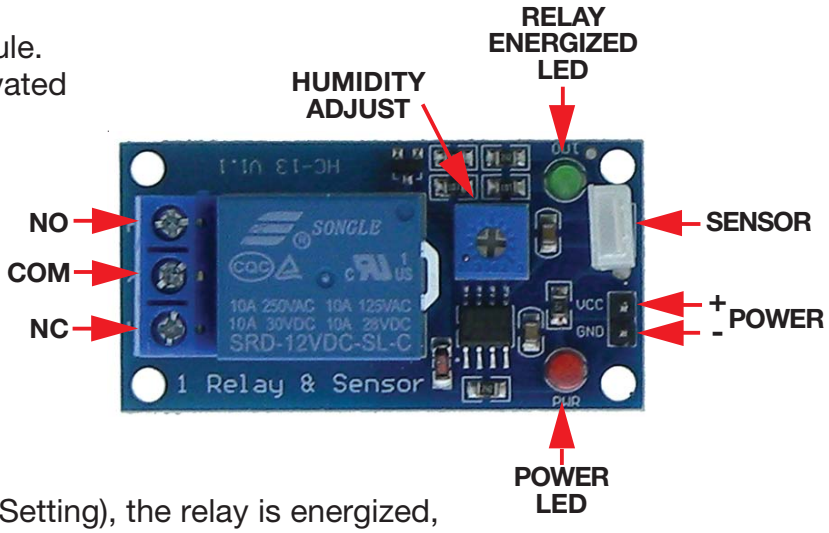
37995-MI

12VDC Humidity Sensitive SPDT Relay Module

Adjustable Humidity Detector control module.
Power: 12VDC @ ~10ma Idle/<50mA Activated
Connections: .1" Pitch Header Pins
Relay: Terminal Strip
Indicators: Red LED: Power On
Green LED: Relay energized
Relay: SPDT
Rated: 10A @ 250VAC/30VDC.
L: 1-15/16" (50mm) **W:** 1" (26mm)
H: 3/4" (19mm) **WT:** .02



OPERATION:
When the threshold is reached (Humidity >Setting), the relay is energized, the Common (COM) terminal is connected to the Normally Open (NO) terminal.
When Humidity is lower than the threshold (Humidity <Setting), the relay is de-energized, and the Common terminal is connected to the Normally Closed (NC) terminal.

HR202 SENSOR SPECIFICATIONS:

Humidity-sensitive resistor made from organic macromolecule materials, it can be used in locations like: hospitals, offices, textiles, pharmaceuticals, meteorology, etc.

FEATURES:

High performance, Excellent linearity, low power, wide range, quick response, high stability.

Operating Range:	**Humidity: 20-95%RH Temperature: 0-60°C**
Power:	**1.5V AC (Max sine)**
Operating Frequency:	**500Hz-2kHz**
Rated Power:	**0.2mW(Max sine)**
Central Value:	**1KΩ (at 25°C , 1kHz, 1V AC, 60%RH)**
Impedance Range:	**9.8-50.2KΩ (at 25° C, 1kHz, 1V AC, 60%RH)**
Accuracy:	**+-5%RH**
Hysteresis:	**+-1%RH**
Long-term Stability:	**+-1%RH/yr**
Response Time:	**<10sec**

MARLIN P. JONES & ASSOC., INC.
P.O. Box 530400 Lake Park, Fl 33403
800-652-6733 FAX 561-844-8764
WWW.MPJA.COM

37995-MI

12VDC Humidity Sensitive SPDT Relay Module

Performance Parameter (at 1KHz)
Unit: Ohm

	0℃	5℃	10℃	15℃	20℃	25℃	30℃	35℃	40℃	45℃	50℃	55℃	60℃
20%RH				10M	6.7M	5.0M	3.9M	3.0M	2.4M	1.75M	1.45M	1.15M	970K
25%RH		10M	7.0M	5.0M	3.4M	2.6M	1.9M	1.5M	1.1M	880K	700K	560K	450K
30%RH	6.4M	4.6M	3.2M	2.3M	1.75M	1.3M	970K	740K	570K	420K	340K	270K	215K
35%RH	2.9M	2.1M	1.5M	1.1M	850K	630K	460K	380K	280K	210K	170K	130K	150K
40%RH	1.4M	1.0M	750K	540K	420K	310K	235K	190K	140K	110K	88K	70K	57K
45%RH	700K	500K	380K	280K	210K	160K	125K	100K	78K	64K	50K	41K	34K
50%RH	370K	26K	200K	150K	115K	87K	69K	56K	45K	38K	31K	25K	21K
55%RH	190K	140K	110K	84K	64K	49K	39K	33K	27K	24K	19.5K	17K	14K
60%RH	105K	80K	62K	50K	39K	31K	25K	20K	17.5K	15K	13K	11K	9.4K
65%RH	62K	48K	37K	30K	24K	19.5K	16K	13K	11.5K	10K	8.6K	7.6K	6.8K
70%RH	38K	30K	24K	19K	15.5K	13K	10.5K	9.0K	8.0K	7.0K	6.0K	5.4K	4.8K
75%RH	23K	18K	15K	12K	10K	8.4K	7.2K	6.2K	5.6K	4.9K	4.2K	3.8K	3.4K
80%RH	15.5K	12.0K	10.0K	8.0K	7.0K	5.7K	5.0K	4.3K	3.9K	3.4K	3.0K	2.7K	2.5K
85%RH	10.5K	8.2K	6.8K	5.5K	4.8K	4.0K	3.5K	3.1K	2.8K	2.4K	2.1K	1.9K	1.8K
90%RH	7.1K	5.3K	4.7K	4.0K	3.3K	2.8K	2.5K	2.2K	2.0K	1.8K	1.55K	1.4K	1.3K