DC AIR RESISTORS — Model 5420

DC Air Resistors	Model 5420
Convenient air resistors don't require oil or air baths	
Calibrate resistance thermometers and other devices	
Includes NIST-traceable calibration data with uncertainty to 1 ppm	
Easily transported for on-site resistance calibration	

Need some high-accuracy working standards for precise, on-site resistance calibrations? If you would like to avoid maintaining traditional standard resistors in oil baths, Hart has a complete assortment of DC air resistors manufactured by Measurements International with Hart's proprietary DWF Connectors for resistors up to 10 KΩ.

The 5420 series covers values from 1 ohm all the way to 1 gig-ohm. These are the finest-quality air resistors you can buy. They're durable, easy to maintain, and easy to use. If you're calibrating multiple devices with resistors of 10 KΩ or less, you'll love Hart's DWF Connectors that handle banana plugs, spade lugs, and bare-wire connections with just the push of a button. They really take the hassles out of making numerous connections to your resistors throughout the day. Resistors above 10 KΩ use traditional binding posts made of tellurium copper for maximum conductivity.

These resistors have an uncertainty of 1 ppm, depending on the resistance, as shown in the table. They're ultra-stable and resistant to thermal and mechanical shock.

Essentially, you can't find a better package than these air resistors, which combine Hart connector technology with Measurements International resistors.

Ordering Information

5420-1	9331/1 1Ω
5420-10	9331/10 10Ω
5420-25	9331/25 25Ω
5420-100	9331/100 100Ω
5420-1K	9331/1K 1 KΩ
5420-10K	9331/10 10 KΩ
5420-100K	9331/100 100 KΩ
5420-1M	9331/1M 1 MΩ
5420-10M	9331/10 10 MΩ
5420-100M	9331/100 100 MΩ
5420-1G	9331/1G 1 GΩ

Specifications

Model	Nominal Value (Ω)	Tolerance ±ppm	Stability, ppm 6 Mo	Stability, ppm 12 Mo	Max Current (100mW)	Max Change, ppm 23°C ±5°C	Calibration Uncertainty, ±ppm	Maximum Voltage (and Gradient)
5420-1	1	2	4	5	0.32 A	3	1	0.5 V
5420-10	10	2	4	5	0.1 A	3	1	1 V
5420-25	25	2	4	5	63 mA	3	1	1 V
5420-100	100	2	4	5	32 mA	3	1	2 V
5420-1K	1 K	2	4	5	10 mA	3	1	10 V
5420-10K	10 K	2	4	5	3.2 mA	3	1	30 V
5420-100K	100 K	2	4	5	1 mA	3	2	100 V
5420-1M	1 M	2	4	5	320 µA	3	2	100 V
5420-10M	10 M	2	6	10	100 µA	3	5	300 V
5420-100M	100 M	10	15	25	10 µA	5	10	1 KV
5420-1G	1 G	30	15	25	1 µA	15	30	1 KV