



2000 SERIES Relative Humidity

Digitron's range of hand-hand relative humidity instruments has been designed for the effective and reliable measurement of controlled environments.

The two models 2020RP and 2080RP both supplied with a temperature/humidity probe, offer excellent accuracy at a budget price. Their ergonomic case design with advanced technology sensors combine to give instruments with excellent performance and long life.

The more advanced instrument 2080RP includes functions such as - Dewpoint calculation, separate thermocouple input and logging and can measure humidity to 1.5% RH accuracy.

Dew Point

The dew point is defined as the lower temperature to which air must be cooled in order for condensation (saturation) to occur. The dew point is dependent on the concentration of water vapour

present, and therefore the relative humidity.

2020RP

Ice Poin

The ice point is defined as the true reading for temperatures below zero.

RH Calibration

RH calibration chamber and capsules are available to generate a known RH value to verify meter accuracy, the capsules are available for 35%, 50% and 80% RH.

2080RP

Specification

	2020RP	ZUOURP
Sensor(s) Plug replaceable	Pt100 RTD plus capacitive RH sensor	Input for Type K thermocouple Pt100 RTD plus capacitive RH sensor
Range:	0 to 100%RH -40°C to +85°C / -14°F to +185°F	0 to 100%RH -40°C to +85°C/ -14°F to +185°F
Resolution:	0.1%RH, 0.1° from -199.9°C to +199.9°C/- 199°F to +392°F, 1° elsewhere	0.1%RH, 0.1° from -199.9°C to +199.9°C/ -199°F to +392°F, 1° elsewhere
Accuracy:	1.5% RH at 23°C/73°F over 0 to 100%RH window	1.5% RH at 23°C/73°F over 0 to 100RH window
Accuracy (integrated Pt100 RTD)	±0.3°C	±0.3°C
Accuracy:(additiona I thermocouple)	0.1% rdg ±0.3°C/0.4°F above-100°C/- 148°F, ± 2 digits 0.5% rdg ±0.3°C/0.4°F below-100°C/-148°F, ± 2 digits	0.1% rdg ±0.3°C/0.4°F above -100°C/- 148°F, ± 2 digits 0.5% rdg ±0.3°C/0.4°F below -100°C/-148°F, ± 2 digits
Operating Temperature:	-10°C to +50°C	-10°C to +50°C
	0 to 100%RH (non-condensing)	0 to 100%RH (non-condensing)
Battery Type: T	Two AA or equivalent cells (not supplied)	Two AA or equivalent cells (not supplied)
Battery Life:	Typically 150 hours	Typically 150 hours
Low Battery Check:	Battery symbol appears on display	Battery symbol appears on display
Display:	12.7mm / 0.5" custom L.C.D.	12.7mm / 0.5" custom L.C.D.
Back light:	Yes	Yes
Environmental Specifications:	IP65 (IP67 optional) with plug connected I	P65 (IP67 optional) with plug connected
Dimensions:	155 x 67 x 40mm/6.1 x 2.6 x 1.6"	155 x 67 x 40mm/6.1 x 2.6 x 1.6"
Weight:	180g/6.4oz	180g/6.4oz



Key Features

- Waterproof to IP65 (with plug connected) with IP67 option
- Magnified display
- Separate battery compartment
- Accuracy: 0 to 100%RH 1.5%
- -40°C to +85°C/ -40°F to +185°F
- Back light
- Auto switch-off
- °C/°F/RH selection button
- Dew Point measurement
- lce Point measurement (2020R only)
- 2080R (additional features)
- External probe option
- Max/Min averaging
- Display hold
- Logging (250 readings on demand or 50 at pre set interval)
- Data store with 4 digit data code input
- Auto range/range lock