

# RL5021 transmitter

## Pro RL5000 CO<sub>2</sub> Series



Temperature



Carbon  
Dioxide

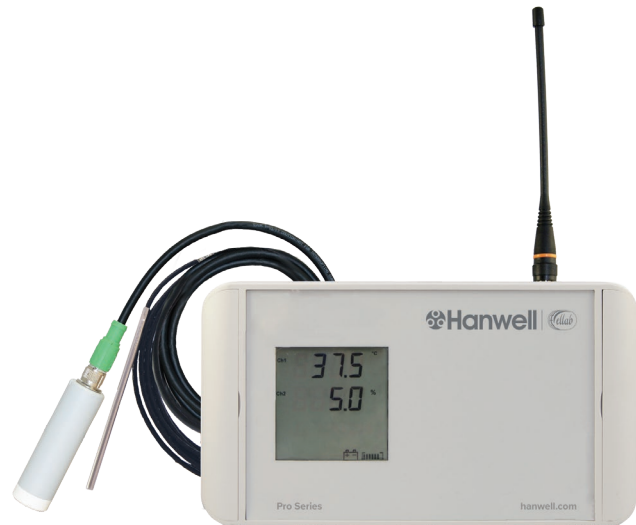
The Hanwell RL5000CO<sub>2</sub> radio telemetry transmitter has been specifically designed with dual measurement including CO<sub>2</sub> and temperature. The units are in IP65-rated cases and are suitable for use in tough environments.

### Product Features

- ✓ Dual channel for CO<sub>2</sub> and temperature measurements
- ✓ High performance technology with accurate sensors and probes
- ✓ LCD display with data readings
- ✓ Low power radio for long distance transmission (Over 3km over open ground)
- ✓ Complies with RoHS, EU and WEEE directives
- ✓ Carries CE Marking

### Typical Applications

- Laboratory incubators



Always ask for a long-range signal strength test.



We can prove ours to be unrivalled.

Product code: RL5021-434.075 (other frequencies are available)

Instrumentation specification	
Dimensions	197 x 106 x 60mm
Weight	300 grams
Power supply	External 12V DC
Case material	ASA & PC
Memory capacity	50,000 readings per channel (unit will wrap when full)
Clock accuracy (logging)	20 ppm @ 25 °C
Instrument operating range	-20°C to +60°C (non-condensing RH environment)
Storage temperature	-40°C to +60°C
IP rating	IP65
Resolution	0.1°C

Radio transmitter functions	
Frequency options	A range of frequencies are available between 433-458MHz. Country specific regulations apply.
Radio power	10mW
Radio range	3km over open ground
Software required	W900 – Standard EMS Software Package W906 – Validated EMS Software Package *See EMS datasheet for further options
Hardware required	SR2 – Smart Receiver REP – Repeater

Accessories	
Y123	Wall mounting bracket

Manufactured by Hanwell | Ellab   RoHS

Version 2 - EC190194

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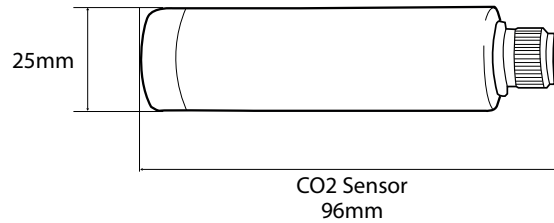
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# Sensor options (supplied separately)

## External CO2 sensor

Accuracy @ 25°C and 1013 PA	±0.1% CO2
Operating Temperature of CO2 Measurement	-40 °C to +60 °C
Temperature Dependence With Compensation, 0 to 20%CO2 between -40°C and +60°C	±0.045% of reading/°C
Long term drift	+/- 0.3% CO2 per year
Recommended Installation	The probe can be installed in an environment with an operating temperature range -40 °C to +60 °C. Make sure the probe is in a location that represents the measurement environment properly.
Housing	PET plastic



## J094-3-01/J094-5-01 External temperature probe 4-Wire PT100 & 5-pin Lemo plug (3mtr/5mtr)

Probe operating range	-200°C to +110°C (restricted by instrument operating range)
Cable operating range	-200°C to +110°C (Remote probes only)
Accuracy	Class A = +/- (0.15+0.0020* t )°C
Long term drift	+/- 0.05 °C per year

