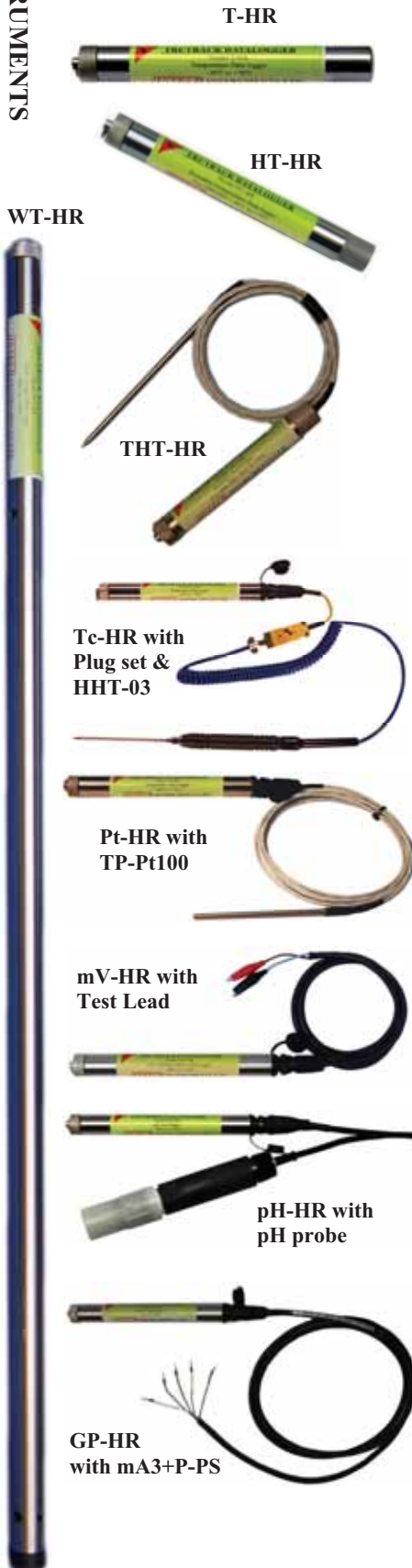


Data loggers

HR Series:

- ◆ Stainless steel case.
- ◆ IP66 rating (excludes Humidity types).
- ◆ 1-5 year battery life (depending on usage).
- ◆ High Accuracy 12 bit or 16 bit.
- ◆ Over 500,000* readings can be stored!
- ◆ Sampling rate from 1 sec to 10 hrs.

www.intech.co.nz/hr-loggers



MODEL	DESCRIPTION	PRICE
T-HR	Single temperature. Internal temperature sensor, range -30~70°C.	\$360.00
HT-HR	Humidity and temperature. Humidity and internal temperature sensor, range -30~70°C.	\$435.00
THT-HR	Humidity and dual temperature. Range -30~70°C. *64,000 samples. Humidity, one internal & one external temperature sensor.	\$480.00
Tc-HR	Dual temperature, Thermocouple (does not include probe). One internal and one external temperature sensor. Internal temperature sensor, range -30~70°C. External temp. sensor, Types J, K, N, R, T. Ranges -250~1760°C.	\$420.00
HHT-03	Type K temperature probe for Tc-HR. Range -30~300°C. Spear probe 2m pvc cable with handle & mini plug. Others available, refer to temperature probe section.	\$40.00
Tc-HR Plug Set	70mm lead c/w plugs (specify thermocouple type).	\$45.00
Pt-HR	Dual temperature, RTD Pt100/Pt500/Pt1000 (does not include probe). One internal & one external temperature sensor. Internal temperature sensor, range -30~70°C. External temperature sensor, Pt100/Pt500/Pt1000, range -200~600°C.	\$410.00
TP-Pt100	Pt100 temperature probe for Pt-HR. Range -100~150°C. 4.7 x 100mm SS probe with 2m tefzel cable.	\$103.00
mV-HR mV-HR Lead	Milli-volt. Ranges: ±50mVdc, ±100mVdc, ±200mVdc, ±400mVdc. Test Lead Set.	\$410.00 \$ 93.00
WT-HR-250 WT-HR-500 WT-HR-1000 WT-HR-1500 WT-HR-2000 316	Water level, air temperature and water temperature. Air temp: -30~70°C. Water temp: 0~45°C. *64,000 samples. To log water level between 0~0.25m. To log water level between 0~0.5m. To log water level between 0~1.0m. To log water level between 0~1.5m. To log water level between 0~2.0m. Option for 316 S/S for Salt water applications	\$605.00 \$625.00 \$690.00 \$740.00 \$790.00 add...
pH-HR	pH and temperature. For use with a Pt100 temperature compensated pH probe (not included). See pages 54-57 for pH probes available from Intech >>> Fit plug set to pH sensor for use with pH-HR logger.	\$430.00 \$45.00
GP-HR	4 Input General Purpose Logger. 3 Analogue inputs – individually configurable. 1 Digital pulse input channel. Also has internal temperature sensor. *Now Over 1,000,000 8 bit samples: or Over 500,000 12 bit samples! Standard External Sensors & Plug Sets for GP-HR.	\$450.00
mA1-PS mA3+P-PS ##VD3-PS	One 4~20mA or 0~20mA input. Three 4~20mA or 0~20mA inputs c/w One pulse input. Three DC voltage inputs. ## = Specify voltage up to 32Vdc. (Maximum voltage input for the GP-HR is 32Vdc (32VD3-PS) - for voltages >32Vdc use an intermediary transmitter like the PI-D).	\$56.00 \$77.00 \$75.00
L-PS Pt3-PS	Light energy. Three Pt1000 temp probes: Temperature range -50~130°C. (Logger maximum Pt1000 temperature range is -100~400°C).	\$210.00 \$230.00
P###-HR-PS	Pressure probe (1/8" NPT thread, 1500mm cable) - available ranges are: P100-HR-PS = -15~100psi, P250-HR-PS = -15~250psi, P500-HR-PS = -15~500psi.	\$545.00
Flow-mA2-PS ACM-mA2-PS	Coil or open collector plus two 4~20mA inputs. Flow metering off the pump run contact plus two 4~20mA inputs.	\$125.00 \$110.00
Note: Please contact Intech for other available options.		
SWDL-DLC3USB SWDL-DLC3 DLC3USB DLC3	OmniLog Software and DLC3USB download cable Kit (USB). OmniLog Software and DLC3 download cable Kit (RS232). Spare HR Series download cable (USB). Spare HR Series download cable (RS232).	\$150.00 \$150.00 \$120.00 \$120.00
HR-Battery mk3 HR-Battery mk4	Replacement HR Series Mark 3 Battery Kit. Replacement HR Series Mark 4 Battery Kit.	\$88.00 \$40.00

View more Data loggers on pages 38 & 39 >

microToT Logger:

- ◆ Small size.
- ◆ 7584 samples.
- ◆ Single internal temperature logger.
- ◆ Wide temperature range -20~70°C.
- ◆ Accuracy of ±0.38°C (0°C to 30°C).
- ◆ Start modes: on date/time or immediately.
- ◆ Logging modes: Each channel can be set to log all or any of the following:
Instantaneous readings, Average reading, Maximum reading, Minimum reading.
- ◆ Continually connected to the computer for instant readings.
- ◆ Interrogation over phone lines using a standard modem link.
- ◆ Dial a pocket pager on an alarm condition.

www.intech.co.nz/microtot



MODEL	DESCRIPTION	PRICE
microToT	Small Single Temperature Logger. Range -20~70°C, 7584 samples, accuracy = ±0.38°C (0°C to 30°C).	\$168.00
SWDL-DLC1	OmniLog Software and DLC1 download cable Kit (RS232).	\$150.00
DLC1	Spare microToT download cable (RS232).	\$120.00

HR Series loggers:

- ◆ Stainless steel case. IP66 rating (excludes Humidity types).
- ◆ Over 500,000* readings can be stored! 1~5 year battery life.
- ◆ A **DLC3USB** [USB] or **DLC3** [RS232] download cable is required to connect HR Series loggers to a computer.
- ◆ Sampling rate from 1 sec to 10 hrs in 1 second increments.
- ◆ Each channel can be set to log all or any of the following:
 1. Instantaneous readings.
 2. Average reading.
 3. Maximum reading.
 4. Minimum reading.
- ◆ Start modes:
 1. On date/time.
 2. Immediately.
 3. On input condition.
- ◆ Stop modes:
 1. On date/time.
 2. When memory is full.
 3. Loop around (continues logging).
- ◆ Continually connected to the computer for instant readings.
- ◆ Interrogation over phone lines using a standard modem link.
- ◆ Send SMS messages on an alarm condition.

GP-HR General purpose four channel logger:

- Select any (up to four) of the following channels:
- ◆ **Three analogue** input channels, to log any combination of:
 1. Temperature.
 2. Humidity.
 3. Pressure.
 4. Light.
 5. Voltage.
 6. Current.
 7. Wind direction.
 - ◆ **One digital** pulse input channel, to log:
 1. Rainfall.
 2. Wind speed.
 3. Flow.
 4. Counter (up to 65535).
 5. Frequency (up to 60 kHz).
 - ◆ **Internal temperature** sensor channel may be activated to log the ambient temperature of the logger.
 - ◆ User replaceable battery.
 - ◆ **Over 1,000,000 8 bit samples:**
or Over 500,000 12 bit samples!
Over 600 days logging 3x Hi-Resolution Channels every 5 minutes.



www.intech.co.nz/gp-hr

OmniLog Software:

- ◆ The OmniLog Data Management software is an application for reading, displaying, analysing, organising and exporting data that has been downloaded from TruTrack data loggers.
- ◆ Data can be read from data loggers or retrieved from previously saved data files.
- ◆ A connected data logger can be configured, calibrated, started, read and stopped by this application.
- ◆ Data retrieved from data loggers and previously saved data files can be viewed and printed in a values spread sheet list, as a graph or as a statistics report. These values, graphs and statistics can be displayed and printed for all data or from a user selected block of data.
- ◆ Data can also be exported in a large range of industry standard formats so as to be used by other applications.



www.intech.co.nz/omnilog

- ◆ Battery Status.
- ◆ Graph & Values.
- ◆ Modem Control.
- ◆ Pager.
- ◆ Exporting Datasets.
- ◆ Offset Calibration.
- ◆ Pager Alarm.
- ◆ Graph Colours.
- ◆ Sample Period.
- ◆ Graph.
- ◆ Joining Graphs.
- ◆ Channel & Probe Setup.
- ◆ Reports.
- ◆ Light Energy.
- ◆ Change Dataset units.
- ◆ Formats.
- ◆ Pulse Input.
- ◆ High Precision Graph Draw.
- ◆ Print.
- ◆ Leaf Wetness.
- ◆ Quick Graph Draw.
- ◆ Overviews.
- ◆ Probe Selection.
- ◆ Typographical Conventions.
- ◆ Dew Point.
- ◆ Saving Log Files.
- ◆ Calibration Procedures.
- ◆ Trips.
- ◆ Serial Number.
- ◆ Humidity Calibration.
- ◆ Tutorial.
- ◆ Dataset History.
- ◆ Light Intensity Calibration limits.
- ◆ Log File.
- ◆ Wind Chill Factor.
- ◆ Units & Scaling.
- ◆ Log Status.
- ◆ Real Time Screen.
- ◆ Displaying Real Time readings.
- ◆ Multi channel.
- ◆ Viewing Data in values.



Data loggers / GSM Modem

GP-MC Multi purpose data logger:

The GP-MC is a high resolution (12 bit) multi purpose Data Logger with eight analogue and two digital pulse inputs. It supports an additional 15 channels of input from remote sensors on an RS485 interface. It also provides a Start on Trigger input and two alarm outputs. The logger also has an integral internal temperature sensor which can be used to log ambient temperature if desired.

A **DLC5USB** [USB] or **DLC5** [RS232] download cable is required to connect the GP-MC logger to a computer.



GP-MC

RS485
channel expansion

RPC



Up to 15 total
channels available

MODEL	DESCRIPTION	PRICE
GP-MC	10 Input Multi Purpose Data Logger. 8 Analogue inputs – individually configurable. 2 Digital pulse input channel. 1,000,000 8 bit samples: 500,000 12 bit samples.	\$698.00
Seahorse	Option: IP66 Weatherproof enclosure. <i>Add</i>	\$320.00
Standard External Sensors & Plug Sets for GP-MC: Others available - contact Intech. GP-MC inputs are individually configurable using OmniLog. Each input requires conditioning using a 'Probe set'. Probe set prices are per input as follows:		
mA-MC-PS	One 4~20mA or 0~20mA input.	\$42.00
5VD-MC-PS	One 0~5Vdc input.	\$53.00
10VD-MC-PS	One 0~10Vdc input. Maximum voltage input for the GP-MC is 32Vdc (32VD-MC-PS) - for voltages >32Vdc use an intermediary transmitter like the PI-D .	\$53.00
Pt1000-MC-PS	Pt1000 temperature probe: Range -50~130°C. (Logger maximum Pt1000 range is -100~400° C).	\$103.00
####-MC-PS	Pressure probe (1/8" NPT thread, 1500mm cable) - available ranges: P100-MC-PS = -15~100psi, P250-MC-PS = -15~250psi, P500-MC-PS = -15~500psi.	\$520.00
Flow-MC-PS	Coil or open collector.	\$125.00
ACM-MC-PS	Flow metering off the pump run contact.	\$110.00
Note: Please contact Intech for other available options.		
RS485 expansion Options (15 total channels available)		
RPC	Remote Probe Controller (3x Analogue channels, 1x Fast Pulse channel) - uses same 'Probe Sets' as the GP-HR.	\$420.00
SWDL-DLC5USB	OmniLog Software and DLC5USB download cable Kit (USB).	\$150.00
SWDL-DLC5	OmniLog Software and DLC5 download cable Kit (RS232).	\$60.00
DLC5USB	Spare GP-MC download cable (USB).	\$120.00
DLC5	Spare GP-MC download cable (RS232).	\$30.00

GSM Tel-Link Modem

The TruTrack GSM Tel-Link Modem is a pole mounted, fully weatherproof GSM Cellular Telemetry system used to access Logger data across the GSM Cellular network.



The unit is fitted with a 2 meter communications cable ready for connection into GP-MC enclosures, sockets on the underside of the L Bar Equipment Arm and HR series telemetry adapters.

There is a power socket on the underside of the GSM Tel-Link Modem. This can be connected to any 12volt DC source: including using a PSW, the TruTrack Solar Power Supply and mains powered plug packs.

The Tel-Link Modem is supplied with a +3dBd half wave antenna. This is connected to a TNC connector so high gain antennas can be fitted if required.

Features:

- ◆ Remote access to loggers anywhere there is GSM coverage.
- ◆ Dual band GSM 900 / 1800 MHz.
- ◆ Fully weatherproof enclosure.
- ◆ Supplied with 2m communications cable.
- ◆ Requires 12Vdc power supply.
- ◆ Comes complete with +3dBd half wave antenna.

MODEL	DESCRIPTION	PRICE
GSM Tel-Link Modem	TruTrack GSM Tel-Link Modem. IP Rating: 66. Height (no Antenna or Bracket): 160mm. Height with Antenna and Bracket: 450mm. Width: 80mm. Depth with mounting Bracket: 120mm.	\$1290.00

Note: Please visit www.vodafone.co.nz/data for pricing information etc needed in order to connect with the GSM Tel-Link Modem.

LCD Data loggers

LCD Series loggers are handheld, high resolution (16 bit) data loggers with a liquid crystal display. The LCD display allows the convenience of viewing realtime readings without having to connect the logger to a computer.

The logger contains an integral internal temperature sensor which can be used to log ambient temperature separately from the loggers main function if desired.

High accuracy and large storage capacity make the LCD series ideal for most industrial and commercial applications.

LCD series loggers are designed for indoor use (IP40), but can be supplied with an optional IP66 Weather Proof Enclosure for outdoor use.

All TruTrack loggers will connect directly to a modem for remote downloading of data and can also send SMS messages on an alarm condition.

Features:

- ◆ Temperature can be set to any combination of Point, Average, Maximum & Minimum readings.
- ◆ Storage capacity of over 500,000 samples!
- ◆ High accuracy 16 bit.
- ◆ 1 to 5 year battery life depending on usage, user replaceable. Data is retained in the event of battery failure. Battery status monitor on LCD display and in OmniLog software. Battery is user replaceable.
- ◆ User selectable sampling rate from 1 second to 10 hours in 1 second increments.
- ◆ Operating range of -20°C to +70°C (-4°F to +158°F).
- ◆ Dimensions = 130mm x 80mm x 30mm.
- ◆ Optional IP66 Weatherproof Logger Enclosure available for outdoor use.
- ◆ A **DLC8USB** [USB] or **DLC8** [RS232] download cable is required to connect LCD Series loggers to a computer.

www.intech.co.nz/lcd-loggers

MODEL	DESCRIPTION	PRICE
HT-LCD	Humidity and temperature. Range -30~70°C. Internal humidity and internal temperature sensor. ±3.0%RH accuracy from 20%RH to 80%RH.	\$450.00
THT-LCD	Humidity and dual temperature. Range -30~70°C. (Includes HT11-Probe). External humidity with temperature, one internal temperature sensor.	\$690.00
HT11-Probe	Digital humidity sensor giving ±3.0%RH accuracy from 20%RH to 80%RH.	\$260.00
HT15-Probe	Digital humidity sensor giving ±2.0%RH accuracy from 10%RH to 90%RH. Humidity sensor probe cable length is 1.5m.	\$350.00 (or add \$90)
Tc-LCD	Accepts Type J, K, N, R and T thermocouple probes with Universal thermocouple connector socket. Ranges -250~1760°C. (Does not include probe).	\$430.00
HHT-03	Type K temperature probe for Tc-LCD, Range -30~300°C. Spear probe 2m pvc cable with handle & mini plug. Others available, please contact Intech.	\$40.00
Pt-LCD	External RTD temperature sensor, range -200~600°C. (Does not include probe). Accepts Pt100, Pt500 and Pt1000 probes.	\$430.00
TP-Pt100-LCD	Pt100 temperature probe for Pt-LCD, range -100~150°C. 4.7 x 100mm SS probe with 2m tefzel cable.	\$143.00
P-LCD	Pressure. Can display the pressure in kPa, Bar or psi on the LCD screen (more pressure display options are available using OmniLog software). [Does not include sensor].	\$430.00
P100-LCD-PS	Pressure sensors available for the P-LCD - 500mm cable length: Pressure sensor. Range = -15~100psi (Overload 200psi, Burst 500psi).	\$370.00
P250-LCD-PS	Pressure sensor. Range = -15~250psi (Overload 500psi, Burst 1250psi).	\$370.00
P500-LCD-PS	Pressure sensor. Range = -15~500psi (Overload 1000psi, Burst 2500psi). All pressure sensors have 1/8 inch NPT thread.	\$370.00
SWDL-DLC8USB	OmniLog Software and DLC8USB download cable Kit (USB).	\$150.00
SWDL-DLC8	OmniLog Software and DLC8 download cable Kit (RS232).	\$150.00
DLC8USB	Spare LCD Series download cable (USB).	\$120.00
DLC8	Spare LCD Series download cable (RS232).	\$120.00
OPTION		Add Price:
Seahorse	IP66 Weatherproof enclosure for LCD Series logger outdoor use.	\$320.00



End view of THT-LCD with external probe connected.

Environmental Monitoring Systems

Environmental Monitoring Systems are fully scalable, providing the flexibility of monitoring only the inputs needed for a given application. The systems use our popular and well tested general purpose data loggers, which means that inputs other than weather types can also be logged if required [E.g. 4~20mA or Voltage signal(s)]!

SMALL System



GP-HR-LB with Air Temp and Humidity sensors in Shield & Solar Radiation sensor.

MODEL	DESCRIPTION	PRICE
GP-HR-LB	GP-HR in L-Bar with attachment plate and two 50mm U bolts.	\$610.00
Options:		
add any three of the following	add Ground Temp. add Air Temp and Humidity in Shield (Note: counts as two channels). add Leaf Wetness. add Solar Radiation. add Wind Direction. add 4~20mA input. add Voltage input.	\$110.00 \$505.00 \$298.00 \$210.00 \$580.00 \$72.00 \$72.00
add any one of the following	add Windspeed. add Rain Gauge input. add 1mm Rain Gauge. add 0.2mm Rain Gauge.	\$540.00 \$72.00 \$270.00 \$410.00
Add download cable: SWDL-DLC3USB SWDL-DLC3 DLC3USB DLC3	OmniLog Software and DLC3USB download cable Kit (USB). OmniLog Software and DLC3 download cable Kit (RS232). Spare DLC3USB download cable (USB). Spare DLC3 download cable (RS232).	\$150.00 \$150.00 \$120.00 \$120.00
Additional options:		
T-BAR	If you require Windspeed and Direction, use a T-Bar rather than an L-Bar.	\$48.00
Cell Modem	add Cell Modem in Weatherproof Box.	\$1290.00
Solar Power	add Solar Power Supply for above.	\$710.00

<< Please refer to pages 36 & 37 for more information on the **GP-HR** general purpose data logger.

www.intech.co.nz/envsystems

MEDIUM System



Optional IP66 Logger Enclosure

MODEL	DESCRIPTION	PRICE
GP-MC	10 Input Multi Purpose Data Logger. Option: IP66 Weatherproof Logger enclosure. add External Socket on Logger enclosure.	\$698.00 \$320.00 \$72.00
Options:		
add any eight of the following	add Ground Temp. add Air Temp and Humidity in Shield (Note: counts as two channels). add Leaf Wetness. add Solar Radiation. add Wind Direction. add 4~20mA input. add Voltage input.	\$110.00 \$505.00 \$298.00 \$210.00 \$580.00 \$72.00 \$72.00
add any two of the following	add Windspeed. add Rain Gauge input. add 1mm Rain Gauge. add 0.2mm Rain Gauge.	\$540.00 \$72.00 \$270.00 \$410.00
add any five of the following	add Air Temp, Humidity, Pressure in Radiation Shield. add Air Temp, Humidity in Radiation Shield.	\$750.00 \$610.00
Mounting	add L-Bar with attachment plate and two 50mm U bolts. add T-Bar with attachment plate and two 50mm U bolts.	\$205.00 \$255.00
Add download cable: SWDL-DLC5USB SWDL-DLC5 DLC5USB DLC5	OmniLog Software and DLC5USB download cable Kit (USB). OmniLog Software and DLC5 download cable Kit (RS232). Spare GP-MC download cable (USB). Spare GP-MC download cable (RS232).	\$150.00 \$150.00 \$120.00 \$120.00
Additional options:		
Cell Modem	add Cell Modem in Weatherproof Box.	\$1290.00
Solar Power	add Solar Power Supply for above.	\$710.00

<< Please refer to page 38 for more information on the **GP-MC** multi purpose data logger.

RTD Thermometers



Designed for the food and beverage industry, the Center 370 offers some exceptional value for money. This is the least expensive RTD unit.

- ◆ IP67 water proof housing.
- ◆ Class A Pt100 probe (included, cable length = 1.4m).
- ◆ Min / Max / Avg temperature function.
- ◆ Backlit LCD Display.
- ◆ Battery indication.
- ◆ Range: -100 to +300°C.
- ◆ Accuracy: $\pm 0.1\%$ of reading or $\pm 0.4^\circ\text{C}$.
- ◆ Resolution: 0.1°C .
- ◆ Dimensions: 150 x 66 x 31mm. Weight: Approx. 175g.

MODEL	DESCRIPTION	PRICE
Center 370	Hand-held RTD Thermometer c/w Pt100 probe.	\$230.00

Note: We can also custom build an RTD probe to your specifications for use with the Center 370.

www.intech.co.nz/center370

Precision RTD Thermometer



Common Specifications:

- ◆ Precision Pt100 probe (included, cable length = 1.4m).
- ◆ Min / Max temperature function.
- ◆ Backlit LCD Dual Display.
- ◆ Data hold function.
- ◆ Relative function.
- ◆ Battery indication.
- ◆ Range: -100 to +400°C.
- ◆ High Accuracy: $\pm 0.05\%$ of reading or $\pm 0.1^\circ\text{C}$.
- ◆ Resolution: 0.01°C .
- ◆ Dimensions: 185 x 65 x 36mm. Weight: Approx. 360g.
- ◆ Auto power off.
- ◆ User Offset adjustable.
- ◆ Tilt stand.

MODEL	DESCRIPTION	PRICE
Center 375	Hand-held Precision RTD Thermometer c/w Pt100 probe. 100 Manual recording data memory included on meter readout function.	\$465.00
Center 376	Hand-held Data Logging Precision RTD Thermometer c/w Pt100 probe. Data logging: 16,000 records. Records Temperature, Time and Date of Measurement. Includes Windows software and USB download cable.	\$595.00

Note: We can also custom build an RTD probe to your specifications for use with the Center 375/376.

www.intech.co.nz/center375-376