

Choosing a Data Logger

Introduction

This reference has been compiled to inform immunisation providers of the range of data loggers available for purchase. Information contained in this reference is directly from the manufacturer and is to be used as a guide only. It is recommended you to contact the manufacturer for additional information to assist in determining which data logger is best suited to your needs.

Every immunisation service provider has different requirements for performance of a data logger, depending on what type of refrigerator you have as well as your thermometer requirements. It is important to be aware of the features on your purpose built vaccine refrigerator, as this could affect the performance of the data logger you choose. All prices indicated are subject to change and should be used as a guide only.

Data Logger Manufacturers

Temperature Technology

Phone: 08 8231 1266
Fax: 08 8231 1212
Email: sales@t-tec.com.au
Web: www.t-tec.com.au
Contact: Kirsten Blichfeldt

Hastings Data Loggers

Phone: 02 6581 3900
Fax: 02 6581 3988
Email: sales@hdl.com.au
Web: www.hdl.com.au
Contact: David Wilson

HLP Controls

Phone: 1800 500 160
Fax: 1800 827 160
Email: trish@hlpcontrols.com.au
Web: www.hlpcontrols.com.au
Contact: Trish Day

Rollex Group

Phone: 1300 880 441
Fax: 1300 880 451
Email: digby@bentleybrokerage.com.au
Email: VEtcell@rollexmedical.com
Web: www.rollexgroup.com.au
Contact: Digby Bentley or Veena Etccl

Electro Chemical Engineering P/L

Phone: 02 9684 2499
Fax: 02 9684 2118
Email: sales@ecefast.com.au
Web: www.ecefast.com.au
Contact: Justin Marven

PLEASE NOTE:

Although some users have recommended these companies and their products, General Practice NSW, cannot guarantee either.



Manufacturer Listing

Temperature Technology

Type of Data Logger	T-Tec		TempTec 816
	T-Tec 6	T-Tec 7	Series S
Temp Range	- 40°C + 85°C	- 40°C to 85°C	- 40°C to 85°C
Price	Ranges from: \$170-\$290	Ranges from: \$170-\$290	\$395
Software & Interface Cable	\$170 (USB or Serial)	\$170 (USB or Serial)	\$170 (USB or Serial)
IP Rating	IP68	IP68	Not water tight
Accuracy	± 0.2°C	± 0.2°C	± 0.2°C
Memory	10600–20000 readings	10600–20000 readings	20100 readings
Alarm	Audible	Visual	Audible & Visual
LCD Screen	No	Yes	Yes
Current Temp Display	No	No	Yes
Sensor	Built-in or remote sensor	Built-in or remote sensor	fixed mounted remote sensor
Size	65x31x106mm	65x31x106mm	118x88x60mm
Weight	115g	115g	400g
Casing	Polycarbonate	Polycarbonate	Polycarbonate
Battery Type	½ AA 3.6V Lithium Replaceable	½ AA 3.6V Lithium Replaceable	AA 3.6V Lithium Replaceable

Hastings Data Loggers

Data Logger Types	TK-4014	TV-4020	TV-4050	TGU-4017	TG-4080
Temp range	- 40°C to 85°C	- 40°C to 125°C	- 30°C to 50°C	- 40°C to 85°C	- 40°C to 70°C
Price	\$179+GST	\$388+GST	\$329+GST	\$229+GST	\$125+GST
Software & Interface Cable	\$139+GST (USB or Serial)	\$139+GST (USB or Serial)	\$139+GST (USB or Serial)	\$139+GST (USB or Serial)	\$139+GST (USB or Serial)
Calibration Cost	\$140+GST	\$140+GST	\$140+GST	\$140+GST	\$140+GST
IP Rating	IP54	IP65	IP65	IP54	IP54
Accuracy	± 0.4°C	± 0.4°C	± 0.4°C	± 0.4°C	± 0.4°C
Memory	16000 readings	30000 readings	30000 readings	32000 readings	8000 readings
Alarm	Visual	Visual [#]	Visual [#]	Visual	Visual
LCD Screen	No	Yes	Yes	No	No
Current Temp Display	No	Yes	Yes	No	No
Sensor	Internal	External*	Internal	Internal	Internal
Size	54x35mm	85x77x35mm	90x65x35mm	72x60x33mm	60.2x15.3mm
Weight	30g	85g+Probe	85g	55g	28g
Casing	Soft Plastic	Hard Plastic	Hard Plastic	Hard Plastic	Soft Plastic
Battery Type	3.6V 1/2 AA Lithium	3.6V 1/2 AA Lithium	3.6V 1/2 AA Lithium	3.6V 1/2 AA Lithium	Renata CR2325

Notes

- [#] An Audible Alarm box is sold separately to the loggers. The price for the Audible Alarm box is \$149+GST
- *The TV-4020 data logger needs a sensor (the PB-4715 or another) for it to function. The price for the PB-4715 sensor is \$59+GST



Rollex Group

Data Logger Types	Thermocron TCZ	Thermocron HC	Logtag	Wireless logger	LogTag (LOGDISP, TRID30-7)
Temp range	-5°C to 25°C	-30°C to 85°C	-30°C to 85°C	-30°C to 85°C	-30°C to 60°C
Price	\$60+GST	\$199+GST	\$70+GST	\$250+GST	\$75+GST \$299+GST for kit
Software & Interface Cable	\$155+GST	\$155+GST	\$155+GST	\$155+GST	\$98+GST
Calibration Cost	\$90+GST	\$120+GST	\$90+GST	\$90+GST	\$90+GST
IP Rating	IP68	IP68	IP68	IP69	IP65*
Accuracy	± 0.6°C	± 0.5°C	± 0.5°C	± 0.5°C	± 0.5°C
Memory	2048 readings	4096 readings	8000 readings	2000 readings	7770 readings
LCD Screen	No	No	No	No	Yes
Alarm	No	No	Visual	Visual	Visual
Current Temp	No	No	No	Software	Software
Sensor	Internal	Internal	Internal	Internal	Internal
Size	16x16x10mm	16x16x10mm	86x55x9mm	30x30x10mm	93x54.5x8.6mm
Weight	5g	5g	35g	10g	39g
Casing	Stainless steel	Stainless steel	Polycarbonate	Polyurethane	Polycarbonate
Battery Life	5+ years	5+ years	2+ years	2+ years	2 years

Notes

- * IP rating is when data logger is vertically mounted or hung

Electro Chemical Engineering P/L

Model	Comark EVt2
Temp range	-30°C to 70°C
Price	\$250 for complete Starter Kit excl. GST & Freight
Calibration	Electro Chemical Engineering has a NATA certified lab and the unit can be posted for calibration
IP Rating	IP67
Accuracy	± 0.5°C
Memory	3000 readings
Alarm	Visual
Current Temp Display	Yes
LCD Display	Yes
Key Feature	Can review log without downloading
Sensor	Internal
Size	88x80x35mm
Weight	77g
Casing	Polycarbonate
Battery Type	1/2 AA Lithium
Battery Life	2 years

Notes:

- Pricing for the loggers & start up kits, all include NATA calibration.
- The pricing offered is specific to General Practice divisions only and available to all divisions throughout Australia.



HLP Controls

Data Logger Types	8814	88128	8828	Ezy-Log
Temp Range	-30°C to 70°C	- 40°C to 85°C	- 40°C to 85°C	- 40°C to 70°C
Price	\$89+GST	\$145+GST	\$199+GST	\$99+GST
Software & Interface Cable	USB or RS232 cable available	USB or RS232 cable available	USB or RS232 cable available	USB
IP Rating	IP65	IP66	IP66	IP54
Accuracy	± 0.6°C	± 0.6°C	± 0.6°C	± 0.6°C
Memory	4000 readings	16000 readings	16000 readings	8000 readings
Alarm	Visual	Visual	Visual	Visual
LCD Screen	Yes	No	Yes	Yes
Current Temp Display	No	No	No	No
Sensor	Internal	Internal	Internal	Internal
Size	90x56x22mm	85x55x22mm	80x55x22mm	70x50x20mm
Weight	80gms	80gms	80gms	100gms
Casing	Plastic Casing	Plastic Casing	Plastic Casing	Plastic Casing
Battery Type	CR2032	CR2	CR2	CR32

Other HLP Controls Temperature Log related Products

Medi-Log	
Price	\$95.00+GST
Accuracy	± 0.5°C
Alarm	Audible & Visual
LCD Screen	Yes
Current Temp Display	Yes
Size	100x65x20mm

Notes:

- Counts the time vaccines have been exposed to temperatures outside the recommended ranges.
- Audible alarm. Alarm pre-set between 2°C & 8°C
- Displays max & min temps read since last check (product sheet also attached)
- Good for remote areas where no computer available.



IP Ratings

What is an IP rating?

IP stands for Ingress Protection rating. It is a two digit number used to indicate the level of protection the data logger's components have against intrusion of water, dust, and solid objects through accidental contact but not immersion.

The **FIRST digit** represents protection against ingress of solid objects

The **SECOND digit** represents protection against ingress of liquids

The larger the value of each digit, the greater the protection from that influence

For example:

The Intelligent MINI has an IP51 rating. This means it has DUST protection tolerance; that DRIPPING WATER has no harmful effects on the logger, and that it is fully protected.

**Please see table below for description of each digit*

First Digit	Protection against ingress of solids	Second Digit	Protection against ingress of liquids
0	No protection	0	No protection
1	Protected against solid objects over 50mm e.g. hands, large tools	1	Protected against vertically falling drops of water.
2	Protected against solid objects over 12mm e.g. hands, large tools	2	Protected against direct sprays of water up to 15° from vertical.
3	Protected against solid objects over 2.5mm e.g. wire, small tools	3	Protected against direct sprays of water up to 60° from vertical.
4	Protected against solid objects over 1.0mm e.g. wires	4	Protected against water sprayed from any direction. Limited ingress permitted.
5	Limited protection against dust ingress (no harmful deposit)	5	Protected against low pressure water jets from any direction. Limited ingress permitted.
6	Totally protected against dust ingress.	6	Protected against high pressure water jets from any direction. Limited ingress permitted.
7		7	Protected against immersion between 15cm and 1M.
8		8	Protected against long periods of immersion under pressure.

If you need more information on IP ratings, please visit this website:

http://en.wikipedia.org/wiki/IP_Code

