

## A Complete System for Temperature Monitoring from PC, Cellular Phone and Modem



Temperature monitoring

INSTRUMENTS	°C	LOG
000004 - Logger 1	28.0	YES
000006 - Logger 2	63.0	YES

Date	Time	°C	Low alarm	High alarm	Remarks
16/07/2004	08:42	24.2			
16/07/2004	08:43	24.3			
16/07/2004	08:44	24.4			
16/07/2004	08:45	24.5			
16/07/2004	08:46	24.6			
16/07/2004	08:47	24.7			
16/07/2004	08:48	24.8			
16/07/2004	08:49	24.9			
16/07/2004	08:50	25.0			
16/07/2004	08:51	25.1			
16/07/2004	08:52	25.2			
16/07/2004	08:53	25.3			
16/07/2004	08:54	25.4			
16/07/2004	08:55	24.9			
16/07/2004	08:56	25.1			
16/07/2004	08:57	25.1			
16/07/2004	08:58	25.1			
16/07/2004	08:59	24.9			
16/07/2004	09:00	24.9			
16/07/2004	09:01	24.9			
16/07/2004	09:02	24.9			
16/07/2004	09:03	25.1			
16/07/2004	09:04	25.1			
16/07/2004	09:05	24.9			
16/07/2004	09:06	25.1			
16/07/2004	09:07	24.9			
16/07/2004	09:08	24.9			
16/07/2004	09:09	24.9			
16/07/2004	09:10	24.9			
16/07/2004	09:11	24.9			
16/07/2004	09:12	25.1			
16/07/2004	09:13	25.1			

In food industry applications, such as catering and supermarkets, temperature monitoring, recording and control are becoming more and more critical. Several regulations require hard copies of temperature data from production all the way through to the consumer.

For this reason many instruments have been produced for continuous temperature monitoring, but they usually have to be removed from their location for data downloading.

Now, thanks to the advanced technology of our HI 142 and HI 504903, this is no longer a problem.

HI 142, available in 8 models with different temperature ranges, allows data downloading directly to the PC.

You can interact the loggers directly from your PC, perform set-up, check the status of the instruments and download the data when the logging is complete.

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You can choose between two connection types: direct connection between PC and HI 142/HI 504903 system, or modem connection which allows logger supervision from a distance of several kilometers.

It is possible to build a control network with up to 31 loggers.

If an error occurs in one or more loggers, e.g. measured temperature is outside the set limit or in case of power failure, HI 504903 will advise the user by sending an SMS to the programmed phone number(s). The message will contain the logger ID and the error. If the HI 504903 does not receive any confirmation of received SMS, it will continue to send messages and call the user.

The operator can also check system status by calling the HI 504903 GSM supervisor, that will answer with an SMS for each logger. The message will include the operating status (stand-by, logging), any recorded error and the current temperature.



**Specifications**

Model	Range	Resolution	Accuracy
HI 142A(H)	-30.0 to 70.0°C / -22.0 to 158.0°F	0.5°C / 0.5°F	±1.5°C / ±3°F
HI 142B(H)	-10.0 to 30.0°C / 14 to 86°F	0.2°C / 0.4°F	±0.5°C / ±1°F
HI 142C(H)	-30.0 to 10.0°C / -22 to 50°F	0.2°C / 0.4°F	±0.5°C / ±1°F
HI 142D(H)	20.0 to 60.0°C / 68 to 140°F	0.2°C / 0.4°F	±0.5°C / ±1°F
HI 142E(H)	-30.0 to -10.0°C / -22 to 14°F	0.1°C / 0.2°F	±0.3°C / ±0.6°F
HI 142F(H)	20.0 to 40.0°C / 68 to 104°F	0.1°C / 0.2°F	±0.3°C / ±0.6°F
HI 142G(H)	-5.0 to 15.0°C / 23 to 59°F	0.1°C / 0.2°F	±0.3°C / ±0.6°F
HI 142H(H)	10 to 120°C / 50 to 248°F	1°C / 2°F	±2°C / ±4°F

**Specifications for all models**

Data Logging	up to 7600 samples
Environment	0 to 50°C (32 to 122°F); RH max 95%
Power Supply	10-20 Vdc
Probe	fixed, with 1.5 m cable of non-toxic material
Dimensions / Weight	dia 86.5 x h 35 mm (dia 3.4 x h 1.4") / 150 g (5.5 oz.)

**Ordering Information**

HI 142 is supplied complete with instructions.

HI 504903 is supplied complete with configuration software, line termination key, HI 920010 serial cable for PC connection, 12 Vdc power adapter and instructions.

**Accessories**

HI 504903-1	GSM supervisor (dual-band 900/1900 MHz with 115 Vac/12 Vdc power adapter)	HI 92140	Windows® compatible software
HI 504903-2	GSM supervisor (dual-band 900/1800 MHz with 230 Vac/12 Vdc power adapter)		