EL-ARC-02

ARCTIKO
true cooling specialists

Ultra Low Temperature Cryogenic Vaccine WiFi Data Logger

- Measurement range -270 to +1372°C (-454 to +2501°F)
- T-type probe on 2m cable
- Wirelessly stream and view data on the EasyLog Cloud
- View and analyse multiple sensors, including graphing of historic data
- Configurable high and low alarms with indicator
- Easy sensor set-up using App

The EL-ARC-02 is designed for ARCTIKO's ultra-low temperature freezers.

Data is streamed wirelessly over any compatible WiFi network and can be viewed on the EasyLog Cloud.

To configure the sensor for use on a given wireless network, connect it wirelessly using the EasyLog Cloud app on a mobile phone with access to the network. The sensor can then be placed anywhere within range of the network. If the sensor temporarily loses connectivity with the network, it will log readings until it is able to communicate again with the EasyLog Cloud (max 30 days at 10 second sample interval).

The sensor is IEEE 802.11bgn (2.4GHz) compliant, supports WPA/WPA2 encryption and enterprise networks (PEAP, TTLS, FAST).

EL-ARC-02 has a protection rating of IP40. The unit is freestanding, but can be attached to a wall or surface using the bracket provided. The unit can be clipped in and out of the bracket as required.

SPECIFICATIONS

	Minimum	Typical	Maximum	Unit
Battery life		>6		Months
Temperature measurement range	-270 (-518)		+1372 (2501)	°C (°F)
USB supply voltage (@500mA)	4.5	5.0	5.5	Vdc
Operating temperature range	-20 (-4)		+60 (+140)	°C (°F)
Logging period (user configurable)	10 sec	10 min	12 hrs	
Transmission period (user configurable)	1 min	1 hr	24 hrs	
Temperature measurement resolution		0.1 (0.2)		°C (°F)
Temperature display resolution		0.1		
Accuracy		1.5 (2.7)		°C (°F)
IP Rating	IP40 (Bung fully inserted, not permanently powered, thermo-couple connector fitted and fully inserted, device mounted vertically.)			
Dimensions	82 x 70 x 23mm (3.22 x 2.75 x 0.91")**			
Probe dimensions	100 x Φ 3mm, 2m cable (3.9 x Φ 0.1, 78.7" cable)			

ACCESSORIES

EL-P-TC-T-CRYO	Replacement High-Accuracy Thermocouple Probe
EL-WEM PSU	Universal Power Supply

INCLUDED IN THE BOX

EL-ARC-02	High-Accuracy Data Logger with Calibratable Thermocouple Probe
EL-WEM PSU	Universal Power Supply
INSTALL KIT	Adhesive Logger Mount and 2x Cable Clip
DATA WIFI QUICK ARC	Quick Start Guide
CLOUD VOUCH 12M-X	12 Month Cloud Voucher

CALIBRATION CERTIFICATES NOW AVAILABLE

Lascar now offers a Traceable Calibration Certificate Service on Temperature Data Loggers. Using reference equipment which has been calibrated by a UKAS/NIST accredited laboratory and using apparatus traceable to national or international standards. For more information please see **www.lascarelectronics.com**.

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EASY DEVICE SET UP AND CONNECTION

EL-ARC-02 is easy to set up and connect to the EasyLog Cloud. The EasyLog Cloud app is available from Google Play or on the App Store.

GET IT ON Google play

Download on the App Store

EasyLog Cloud
Your Data. Anytime. Anywhere.

EasyLog Cloud harnesses the power of IoT to automate data logging and alert notifications, enabling you to monitor and manage multiple data logging devices in different locations completely remotely. The system easily scales to meet your needs. Perfect for compact systems with just a few measuring points, or corporate solutions with thousands of devices around the globe.

You will need to create an account at www.easylogcloud.com before setting up your cloud connected data logger.

Features at a glance*

*Features depend on account type.

| Store your data logging records securely on the Cloud | Connect multiple users with variable account privileges | Connect data loggers from multiple sites in a single account | Easily access your most important data, anywhere | Remotely manage all of your data logging devices | Never miss a critical event with flexible, advanced notifications | Review and analyse your data with powerful graphing functionality | Keep track of data events and system activity with a detailed event log |

BATTERY LIFE AND POWER SUPPLY

The battery can be recharged (unit must be between 0 - 40°C) via a PC, a USB +5V wall adapter, or a portable USB battery pack using the USB lead provided. It can also be permanently powered by a USB wall adapter or USB battery pack. Readings may be affected while the internal battery is being charged. However, once charged, continued connection of the charger will have no effect.

Battery life is dependent on: transmission period, Wi-Fi encryption method, Wi-Fi encryption key rotation frequency (determined by the router/access point), signal strength between router/access point and Wi-Fi device, presence, volume and type of Wi-Fi traffic from other devices, sample rate, operating temperature and frequency of audible and visual alerts.

Specifications liable to change without prior warning