DATASHEET

# ST100B-15

LogTag

Distributed by AKRIBIS

# CALIBRATABLE REPLACEABLE SMART PROBE

LogTag®

# Smart Probe

## CP100K/CP110K

AKRIBIS · www.akribis.info · contact@akribis.info

The ultimate solution for uninterrupted temperature monitoring, the LogTag® CP100K and CP110K Smart Probes are precise and reliable probes that can be swapped out and calibrated separately from your logger.

When recalibration is needed, the plug-and-play hot-swappable design allows users to replace the probe easily. Simply disconnect the Smart Probe from your compatible logger, and plug in your new one. Calibration complete.

The expired probe can be sent to a calibration lab for re-calibration.

# Features

Plug-and-play hot-swappable calibratable probe without the need to remove the loggers from current location

Easy to download calibration certificate through LogTag® Analyzer

Battery life of 3-years

High quality gold plated MCX connector

# Compatibility Chart

| Logger Model | 1.5m Smart Probe | 3m Smart Probe |
|---|---|---|
| UTRED30-16 Dual-Channel | CP100K-15 | CP100K-30 |
| UTRED30-WiFi Dual-Channel | CP100K-15 | CP100K-30 |
| TRED30-16U | CP100K-15 | CP100K-30 |
| TRED30-16CP | CP110K-15 | CP110K-30 |

# Applications

Laboratories

Pharmaceutical and Vaccine

Warehouse

Cold Room

Server Room

Clinics

# Specifications

| | |
|---|---|
| **Product Model** | CP100K/CP110K |
| **Temperature Measurement Range** | -40 °C to +99 °C (-40 °F to +210 °F) |
| **Temperature Operating Range, Probe End** | -40 °C to +99 °C (-40 °F to +210 °F) |
| **Temperature Operating Range, Signal Conditioning End** | -20 °C to +70 °C (-4 °F to +158 °F) |
| **Rated Temperature Reading Accuracy** | Better than ±0.5 °C (±0.9 °F) for -20 °C to +40 °C (-4 °F to +104 °F), typically ±0.3 °C (0.6 °F)<br>Better than ±0.8 °C (±1.4 °F) for -40 °C to -20 °C (-40 °F to -4 °F), typically ±0.5 °C (0.9 °F)<br>Better than ±0.8 °C (±1.4 °F) for +40 °C to +70 °C (+104 °F to +158 °F), typically ±0.7 °C (1.3 °F)<br>Better than ±1.2 °C (±2.2 °F) for +70 °C to +99 °C (+158 °F to +210 °F), typically ±1 °C (1.8 °F) |
| **Temperature Resolution** | 0.1 °C (0.2 °F) for measurements -40 °C to +50 °C (-40 °F to +122 °F)<br>0.2 °C (0.4 °F) for measurements +50 °C to +70 °C (+122 °F to +158 °F)<br>0.3 °C (0.5 °F) for measurements +70 °C to +80 °C (+158 °F to +176 °F)<br>0.4 °C to 0.6 °C (0.7 °F to 1 °F) for measurements +80 °C to +99 °C (+176 °F to +210 °F) |
| **Acquisition Interval** | Determined by logger, shortest acquisition interval 30 seconds |
| **Sensor Reaction Time** | Based on tip, same as for current probes |
| **Environmental** | Probe tip: IP68<br>Probe tip/cable junction: IP64<br>Signal conditioning: IP44 |
| **Power Source** | CR2032 3V LiMnO2 Battery (distributor replaceable) |
| **Connection Interface** | Single wire digital interface to compatible loggers |
| **Battery Life** | 1 year storage, followed by 3 years of normal use (based on 5 minute logging) |
| **Weight** | 34g |
| **Signal Conditioning Case Material** | Polycarbonate |
| **Tip Material** | Stainless Steel 316 |
| **Probe Tip Length** | 65mm exposed tip |
| **Probe Tip Diameter** | 3.2mm |
| **Smart Probe Dimensions** | 32.5mm (H) x 46.3mm (W) x 12.5mm (D) |
| **Cable Material** | PTFE |

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