

DICKSON SM300/320/325/420

TEMPERATURE LCD DISPLAY LOGGERS

Introducing our best data loggers ever! Dickson's new series of Temperature Data Loggers with Jumbo Display offer all of the key features you've been looking for including: High/Low Alarm, Min/Max Display, Super high-speed USB 2.0 Connectivity, One Step Data Transfer using removable SD FLASH memory cards and 1 Second Sample Rate. High Accuracy Temperature Models and Remote Probe Models.

SM420 features a $\pm 0.5F$ High Accuracy Platinum RTD Probe perfect for monitoring critical storage applications and processes.

Additional Features:

Model	Accuracy	Remote Probe
SM300	$\pm 0.8^{\circ}F$	
SM320	$\pm 1.8^{\circ}F$	1 K-Thermocouple
SM325	$\pm 1.8^{\circ}F$	2 K-Thermocouple
SM420	$\pm 0.5^{\circ}F$	1 Platinum RTD

Featuring our fastest data download ever! Download data in just seconds, using new USB port compared to 1.5 minutes using standard serial port. Or, leave the logger in the field and use memory cards to transfer data to your PC.

Specifications:

Temperature Range - Internal (SM300, SM320): -4 to +158°F (-20 to +70°C)

Temperature Range - External:

SM420 RTD Probe: -50 to +350°F (-45 to +176°C)

SM320, SM325: Full Range using A203 K-Thermocouple Probe: -300 to +2000°F (-184 to +1093°C);

Range with standard K-Thermocouple Probe: -300 to +400°F (-184 to +204°C)

Temperature Accuracy - SM300: $\pm 0.8^{\circ}F$ ($\pm 0.5^{\circ}C$); **SM320, SM325:** $\pm 1.8^{\circ}F$ ($\pm 1^{\circ}C$) logger only;

SM420: $\pm 0.5^{\circ}F$ ($\pm 0.28^{\circ}C$)

External Sensor - SM320, SM325: 4' Teflon coated K-Thermocouple bead-wire probe with mini-connector; **SM420:** 6' Platinum RTD Probe

Internal Sensor (SM300/SM320): Thermistor

IP Rating: IP20

Download: USB, Serial, or Memory Card

Ambient Operating Conditions (logger only): -4 to +158°F (-20 to +70°C); 0 to 95% RH non-condensing

Storage Conditions (logger only): -40 to +176°F (-40 to +80°C); 0 to 100% RH non-condensing

Keypad - Type/Functions: 3 buttons with tactile feedback; Min/Max, Alarm, Download

Response Time: 1 min. to 63% FS, typical - dependent on K-type probe used

Display: 2.0" x 1.375" V.A. 4 digit LCD, TN positive mode, Reflective

Resolution - Logger: 0.1° From 0.0 to 999.9; 1° over 1000

Power Supply - Type: Batteries, 4 AA Alkaline, AC adapter - optional

Battery - Type/Life: AA alkaline, user replaceable; 6 months typical @ 1 minute sample intervals

AC Adapter: Input Voltage/Current: 120VAC / 60Hz / 16W; Output Voltage/Current: 9VDC / 1A;

Input Connection: Plugs directly into outlet; Output Connection: 3.5mm phone plug; Length: 6 feet

Sample Interval: Variable from 1 sec. to 24 hours in 10 sec increments

Memory Type: EEPROM, Removable Flash Storage Device

Number of Samples: 32,000 (16,000 per channel) measurements

Alarms - Types: High/Low audible alarm

Approvals: CE

Calibration: User: zero pt.; Factory: zero and span

Enclosure - Type: Polycarbonate

Mounting: Wall mountable via keyhole slots

Dimensions - Enclosure: 4.0" x 3.0" x 1.6" (10.2cm x 7.7cm x 3.9cm)

Weight: 9 oz.

Includes: All Models: Batteries, instruction manual; **SM320:** K-Type Thermocouple beadwire probe; **SM325:** 2 K-Type Thermocouple beadwire probes; **SM420:** Platinum RTD Probe



SM300



SM320



SM325



SM420

Models shown with optional FLASH memory card

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DicksonWare™ & Download Cable Specifications:

DicksonWare™ Minimum Version Required: SM300, SM320, SM325: DicksonWare™ version 8.3, SM420: Dicksonware™ version 9.0

Compatible With: A016/A026: Microsoft Windows® 98, 2000, and XP

PC Requirements: PC with 486 MHz or faster microprocessor, 16 MB RAM (A016/A026), 1 USB root hub (A016/A026), CD drive, VGA monitor or better

Cable Type/Length: A016/A026: USB male series "A" plug to 5-pin male series "B" mini plug, 6' (2 meters)

Computer Interface: USB

Ordering Information

Description	Order No.
LCD Display Temperature Data Logger	SM300
LCD Display Temperature Data Logger w/ External K-Thermocouple Probe	SM320
LCD Display Temperature Data Logger w/ 2 External K-Thermocouple Probes	SM325
LCD Display Temperature Data Logger w/ External Platinum RTD Probe	SM420

Accessories

Description	Order No.
DicksonWare™ Software and USB Cable - English	A016
DicksonWare™ SECURE Software and USB Cable (21CFR11 Compliant) - English	A026
DicksonWare™ Software and USB Cable - French	A036
DicksonWare™ SECURE Software and USB Cable (21CFR11 Compliant) - French	A038
DicksonWare™ Software and USB Cable - Spanish	A046
DicksonWare™ SECURE Software and USB Cable (21CFR11 Compliant) - Spanish	A048
Removeable FLASH Storage Device	A210
Card Reader Kit	A220
NIST Traceable Calibration 1-pt. (new units)	N100
NIST Traceable Calibration 3-pt. (new units)	N300
A2LA Accredited Calibration 3-pt. (new units)	N400
Certificate of Validation	N520
Logger Calibration Software	SW400
AC Adapter (recommended for continuous display)	R157
Extra USB Logger Download Cable	A061
Universal International AC Adapter (recommended for continuous display)	R065

Optional Probes (SM320 & SM325)

Description	Order No.
4" Piercing Probe, 5' Coiled Cable, +1650°F (+900°C)	D605
5" Immersion Probe, 5' Coiled Cable, +1650°F (+900°C)	D608
6" High Temperature Basic Probe, +2100°F 316 Stainless Steel	A203

DICKSON

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All specifications are subject to change • Made in U.S.A.

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