

SP1000LFC SERIES TECHNICAL INFORMATION

Electrical: Voltage: 12 to 55 V DC

Monitor Display:

- 2 lines x 16 characters LCD (super twist)
- LED backlight
- Large character size (4.84 x 8.06 mm)
- Temperature range 0 °C to 50 °C

Environmental:

- Operating temperature
- (-10 °C to +50 °C)
 - Humidity up to 90%, no condensation

Enclosure:

- Water and dust resistant
- Machined aluminum
- Universal mounting bracket

Physical:

- Length: 242 mm
- Width: 151 mm
- Depth: 44 mm
- Weight: 1100 g

Alphanumeric Keyboard:

- Enlarged 16 key with tactile feedback
- Audible key signal during data entry
- Sealed keyboard, watertight
- Functions overlay

Status Indicators:

- System On
- Overload
- Lift 2
- Lift1
- Motion
- Transmitting

Scrolling Features: Allows overall status and session statistics to be displayed

Automatic Time-Out Function: Automatic recovery to user mode after 7 seconds if operator does not complete input instructions

Real Time Clock:

- Continuous operation
- Hours / Minutes
- Year / Month / Day

EPROM: Up to 64 K bytes for application programs

Ram: Up to 128 K bytes for program and data storage

CPU: Intel 8032

Monitor Interface:

- Serial interface for printer
- Serial interface for IR, RF or link to PC

Communication:

- Automatic downloads of finished sessions
- Up to 9600 baud (asynchronous)

Monitor calibration: External calibration via keypad with clear LCD instructions in English (No codes)

Calibration Security: Only a secure ID# to initiate the calibration mode

Standard outside thread G 1/4 male, sealed at back DIN3852/E with pressure tip orifice

Interference Stability	Test Standard	Effects
Electrostatic discharge (ESD)	EN 61000-4-2 15 kV air discharge, 6kV contact discharge	No effect
High- frequency electromagnetic radiation (HF)	EN 61000-4-6 200mV, 80....1000Mz	No effect
Conducted HF interferences	EN 61000-4-6 30V. 0,15...80 MHz	No effect
Fast transients (burst)	EN 61000-4-4 4kV	No effect
Surge	EN-6100-4-5 Line-Line, Line-Case 500V, 12Ohm, 9µF	No failure
Magnetic fields	EN 6100-4-8 30A/m, 50 Hz	No effect
Insulation voltage	500 V DC (optional 1000 V DC)	No effect
Interference emit	Test standard	Effects
Conducted interference Radiation from housing	EN 55022 0, 15... 30Mhz 30... 1000Mhz, 10 meters	No emission

Pressure Transducer:

Standard pressure port connection: G 1/4 , male thread standard
Pressure transducer adapter G1/4 to 1/4"-18 NPT male included in kit
Optional pressure port : M 12x 1,5
Accuracy: +/- 0.3% of full scale
Repeatability: +/- 0.05% of full scale
Hysteresis: +/- 0.1% of full scale
Stability: +/- 0.2% full scale/yr

Temperature Information:

Compensation: 32° F to 175° F

Drift: +/- 0.03% /50 ° F

Medium: -22° F to 212° F

Ambient: 14° F to 175° F

Storage: -40° F to 212° F

Materials of Construction: Casing: Stainless steel 1.4305 (AISI 303)

Weight: 95 grams

Shock Sensitivity: <+/- 0.05% full scale @ 100g for 20 ms

Vibration Sensitivity: <+/- 0.05% full scale @ 35g & 5-2000Hz

Response Time: < 0.1 ms, 10-90% FS

Frequency Limit: 150 Hz

Proof Pressure: 2, 5 x range

Burst Pressure: 2, 5 x range

Output: 3 wires 0 - 2, 5 V DC

Protection: Environmental: IP67

Fault:

Reverse polarity

over voltage

Short circuit