

TECHNICAL BULLETIN:

LC100



LC100

The LC100, compact in size, is designed to run 24/7 creating trend reports to ensure maximum equipment efficiency. With an intuitive menu it gives the user(s) the ability to easily change settings, alarms, set-points, and perform diagnostics. This ensures your assets, employees, and customers will continually exceed your standards of quality. Whether you desire to upgrade a legacy unit that requires the simplest of controls or you are on the cutting edge of tech and need a solution for complex monitoring and control, the LC100 is built to flawlessly perform in any circumstance.

*Disclaimer AMCI warranties hardware for a full three years (36 months) ** Warranty is subject to AMCI published Terms and conditions. Contact your AMCI representative to obtain a copy or visit www.amci-wireless.com*



KEY FEATURES

- Fully Automated Control Panel**
- Built-in Lubrication Counter**
- User Selectable Data Logging Window**
- Increased Productivity with Intuitive Design**
- System Controlled Setpoints**
- Fully Customizable Timers**
- Send Commands Remotely**
- External Indicator Light**
- Packed with CT100 comm Hardware**
- 36 Month Warranty**



PRODUCT BENEFITS

- Wireless1440 iPhone and Android Apps**
- AMCi-Wireless SatAlarm®-Server**
- Eliminated Third Party Annunciator Hardware**
- Full Fault and Run Condition Local Historian**
- Fault and Condition Trending**
- Control Hierarchy**
- 24/7 Technical Support**

SatAlarm® Server Web-Based SCADA

- Web browser & App based historian
- Color graphical interface
- User configurable displays
- Customizable dashboard
- Multi data point graphs
- Data tracking
- Integrated Maps
- Equipment configuration
- Device control
- Data conditioning
- Reporting

EXTERNAL INTERFACES

- Serial: 2 ports; RS-232 and RS-485
- I/O: 4 channel; individually configurable as analog input or digital input/output
 - o Analog inputs: 0 – 3.0V, 1.0mV (12-bit) resolution; 4-20mA, 143 Ω loop resistor
 - o Digital inputs: -10 – 150VDC safe, pull-up or pull-down
 - o Digital outputs: 32VDC safe, 250mA sinking (open drain), or 3VDC, 25µA (push-pull)
- Inputs: 4 channel; individually configurable as analog input or digital input
 - o Analog inputs: 0 – 5.0V, 1.0mV (12-bit) resolution
 - o Digital inputs: -10 – 150VDC safe, pull-down
- Outputs: 2 channel
 - o Digital outputs: 32VDC safe, 250mA sinking (open drain)
- Additional I/O available using Modbus I/O expansion modules

PROGRAMMING

- Reporting (configured over the air):
 - o Configurable time-of-day based schedule
 - o Configurable interval-based schedule
 - o 1 minute up to once every 28 days
 - o By exception; user definable test conditions
- Modbus RTU:
 - o 16 configurable commands
 - o Data reportable by schedule, interval, threshold test, any change, or pattern match

GPS

- Acquisition Time: 1-27 seconds (warm & cold)
- Accuracy: 2.5 meters (CEP-Horizontal)

SATELLITE MESSAGING

- Two-way, global, IsatData Pro
- From terminal (max per message) - 6400 bytes
- To terminal (max per message) - 10,000 bytes

SATELLITE COMMUNICATION

- Frequency:
 - o From terminal: 1626.6 – 1660.5 MHz
 - o To terminal: 1525 – 1559 MHz
- Elevation angle: +20° to +90° (remote antenna) -15° to +90° (low elevation antenna)
- Maximum EIRP: 7.0 dBW
- Maximum Antenna Gain: 4.5 dBic

CELLULAR COMMUNICATION

- Global: Cat 4 LTE (B1, B3, B5, B7, B8, B28), UMTS (850, 900, 1900, 2100), Quad-band GSM
- Americas: Cat 1 LTE (B2, B4, B5, B12), UMTS (850, 900, 1900, 2100), Quad-band GSM
- Saudi Arabia: Cat 1 LTE (B1, B3, B8, B20, B28), UMTS (2100)
- SIM: 3.3V/1.8V SIM

POWER

- Input voltage: 9 to 32VDC
- Load dump protection : +150V; SAE J1455

CERTIFICATIONS/COMPLIANCE

- CE (R&TTE, RoHS 2), FCC/IC, PTCRB, Inmarsat type approval, ACMA, ICASA, Anatel, ITF, IEC 60945

ENVIRONMENTAL

- Operating temperature: transceiver and antenna: -40°C to +85°C; back-up battery: -20°C to +75°C;
- Dust and water ingress: transceiver: IP67; Satellite/GPS antenna: IP67;
- Vibration: SAE J1455 (Sec 4.9.4.2 fig 6-8); MIL-STD-810G
- Shock: MIL-STD-810G (Sec 516.6)
- Cabinet: NEMA 4

INTERNAL BATTERY

- Lithium ion 2,000 mAh
- Discharge temperature range: -20°C to +75°C

PHYSICAL

- 148 x 113 x 47 mm
- 181 x 113 x 47 mm including mounting feet
- 13.9 lbs. (6.3 kg)

WARRANTY

- 3 year standard limited warranty



INT 1 346 701 5711



www.amci-wireless.com



255 Pennbriht Drive, Suite 240
Houston, TX 77090
2171 S Trenton Way, Suite 217,
Denver, CO 80231



salesmgmt@amci-wireless.com