



## Multi-Sensor Input Logger with data transmission via Iridium or Cellular

- **Features**  
USB-Host, RS-232, Cellular, Data Logger, RS-232 and RS-485, Switchable SDI-12 power, Iridium
- **Product highlights**  
Plug and play modem, custom programming with Python Scripts (XLink500), up to 32 measurements, log up to 1,000,000 readings, USB flash drive, secure communication (TLS 1.2 ciphers), multiple interfaces and protocols (HTTP,TCP/IP,FTP), and 3 levels of security to configure, perform maintenance or access data
- **IP-Communication**  
Yes
- **Sensor interfaces**  
SDI-12, RS-232, RS-485

Sutron's XLink product family offers a cost-effective Wi-Fi enabled datalogger with data transmission via Iridium or Cellular. Ideal for use with multiple digital and analog sensors supporting basic or advanced monitoring applications. The product comes in two models tailored to fit different application and budget requirements. The XLink 100 and XLink 500 carry over all the great capabilities from its predecessor family (CDMALink, HSPALink, GPRSLink, IridiumLink).

### GENERAL INFORMATION

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Dimensions             |                                                 |
| XLink500-1, XLink100-1 | Inches: 4.5 x 6.2 x 1.6 (cm: 11.4 x 15.8 x 4.1) |

# Technical Data

Sutron XLink 100/500 Logging Transmitter



|                       |                                                  |
|-----------------------|--------------------------------------------------|
| NEMA-4 (IP66)         | Inches: 7.3 x 9.5 x 5.2 (cm: 18.5 x 24.2 x 13.2) |
| Weight (XLink500-1)   | 1 lbs. (0.5 Kg)                                  |
| IP rating             | IP66 (NEMA variants)                             |
| Operating temperature | 40 °C to +70 °C (-40 °F to +158 °F)              |
| Compliance            | CE, FCC, ISED                                    |
| POWER REQUIREMENTS    |                                                  |

|           |                                           |
|-----------|-------------------------------------------|
| Voltage   | 9-20 VDC; 10-16 VDC for SDI-12 Compliance |
| Quiescent | < 1 mA typ. @12.5 VDC                     |

|                                     |                                 |
|-------------------------------------|---------------------------------|
| <b>SDI-12 (DEDICATED INTERFACE)</b> |                                 |
| Compliance                          | V1.3 data recorder              |
| Power                               | 500 mA, short-circuit protected |

|                                               |                |
|-----------------------------------------------|----------------|
| <b>ANALOG - SINGLE ENDED (XLink 500 ONLY)</b> |                |
| Number of inputs                              | 2              |
| Range*                                        | 0-5V           |
| Accuracy @ 25 °C                              | 0.04 % typ. FS |
| Resolution                                    | 0.3 µV         |

|                                               |                           |
|-----------------------------------------------|---------------------------|
| <b>ANALOG - DIFFERENTIAL (XLink 500 ONLY)</b> |                           |
| Number of Inputs                              | 2                         |
| Range*                                        | ±39 mV, ±312 mV, ±2.5 V   |
| Accuracy @ 25°C                               | 0.04 % typ. FS over 2.5 V |
| Resolution                                    | 0.3 µV @ ±2.5 V scale     |

|                                          |                   |
|------------------------------------------|-------------------|
| <b>ANALOG - 4-20 mA (XLink 500 ONLY)</b> |                   |
| Number of inputs                         | 1                 |
| Range                                    | 0-22 mA           |
| Accuracy @ 25°C                          | 0.14 % FS         |
| Load                                     | Internal 200 ohms |

|                                 |                                                             |
|---------------------------------|-------------------------------------------------------------|
| <b>DIGITAL - INPUTS/OUTPUTS</b> |                                                             |
| Number of inputs                | 2                                                           |
| Input type                      | 0-15 V, optional low-level input Status, counter, frequency |
| Max input frequency             | 10 KHz, optional debouncing, internal pull                  |
| Number of outputs               | 1                                                           |

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# Technical Data

Sutron XLink 100/500 Logging Transmitter



|                      |                                                                                 |
|----------------------|---------------------------------------------------------------------------------|
| Output types         | On/off/ pulse<br>Open collector w/100 ohm limiting resistor.<br>100 mA, 15V max |
| OTHER INPUTS/OUTPUTS |                                                                                 |

|                                             |                                                                                                                   |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Precision analog reference (XLink 500 only) | 2 terminals, 2.5 V, 10.0 mA (total)                                                                               |
| Switch 12V                                  | 1A, 1 port, overloaded protected                                                                                  |
| Protected 12V (XLink 500 only)              | 0.75 A, 1 port                                                                                                    |
| RS-485                                      | 1 port; SDI-12, ModBus, custom communications with Python                                                         |
| RS-232                                      | DB9; terminal interface, User interface, ModBus, custom communications with Python                                |
| USB Device (Micro B)                        | 1 port; PC / MAC communication using Sutron's LinkCOMM                                                            |
| USB Host (Type A)                           | 1 port; setup, firmware update, log download using a USB flash drive                                              |
| *                                           | * Nominal. Guaranteed Analog Input Range Over Temperature Is 0–4.98 V, $\pm 2.49$ V, $\pm 311$ mV, $\pm 38.9$ mV. |

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