

Technical Data @ 25°C

(Specifications subject to change without notice)

GENERAL INFORMATION

Dimensions

XLink 500-1, XLink 100-1
11.4 cm x 15.8 cm x 4.1 cm

NEMA-4 (IP66)

18.5 cm x 24.2 cm x 13.2 cm

Weight (XLink 500-1)

0.5 Kg

IP rating

IP66 (NEMA variants)

Operating temperature

-40 °C to +70 °C

Compliance

CE, FCC, ISED

POWER REQUIREMENTS

Voltage

9–20 VDC; 10–16 VDC for SDI-12

Compliance

Quiescent

< 1 mA typ. @12.5 VDC

SDI-12 (DEDICATED INTERFACE)

Compliance

V1.3 data recorder

Power

500 mA, short-circuit protected

ANALOG – SINGLE ENDED (XLINK 500 ONLY)

Number of inputs

2

Range*

0–5 V

Accuracy @ 25 °C

0.04 % typ. FS

Resolution

0.3 μ V

ANALOG – DIFFERENTIAL (XLINK 500 ONLY)

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 μ V @ ± 2.5 V scale

ANALOG – 4–20 MA (XLINK 500 ONLY)

Number of inputs

1

Range

0–22 mA

Accuracy @ 25°C

0.14 % FS

Load

Internal 200 ohms

DIGITAL INPUTS / OUTPUTS

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

Output types

On/off/pulse

Open collector w/100 ohm limiting resistor.

100 mA, 15 V 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 12 V (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

NOTE:

Sutron RECOMMENDS installing XLINK500-1 or XLINK100-1 in a NEMA-4 enclosure for all applications requiring outdoor exposure. Sutron recommends the internally mounted lightning protection kit 6661-1353-1 for the -1E or -1C models or an externally mounted lightning protection module such as the Sutron 8111-1113-1 to protect the telemetry RF output.

* Nominal. Guaranteed Analog Input Range Over Temperature Is 0–4.98 V, ± 2.49 V, ± 311 mV, ± 38.9 mV.