

STR SEASYNC PPS/RS232 Splitter



The STR SeaSync PPS Splitter provides a means of easily connecting multiple pieces of equipment requiring TTL PPS signals and RS232 coms to a single source.

It is configurable via a front panel switch as a single input (A) to 10 output system or as 2, two inputs to 5 outputs systems (A and B inputs/outputs).

All inputs and outputs channels have full low voltage galvanic isolation to reduce the likelihood of ground differential issues.

The system can also be used to provide two isolated bi-directional RS232 channels.

The unit has the facility to convert input signals to match signal output to the requirements of connected equipment (eg positive/negative edge trigger, fixed duration pulse etc).

KEY FEATURES

- Ideal for GPS data distribution
- 1 in 10 out / 2 in 2x5 out (RS232/TTL Trig)
- Galvanic Isolation between all inputs/outputs
- 2x Isolated RS232 bi-directional coms channels (DB9 connections).
- TTL compatible input /outputs via BNC connections.
- Selectable fixed duration pulse output function.
- Selectable positive or negative trigger logic.
- Standard 19-inch rack mountable.

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TECHNICAL SPECIFICATIONS

POWER:	DESCRIPTION
SUPPLY VOLTAGE:	12-20 volts DC /100-240V AC
POWER:	3W (typical)
INPUT PROTECTION (POWER):	Internal Fuse, Reverse polarity Protection, Over voltage / Under voltage lock out

PPS INPUT CHANNELS:	DESCRIPTION
PPS INPUTS:	Two separate PPS input channels (TTL compatible level, all Low voltage galvanically isolated, rated at 50 volts maximum)
CONNECTOR TYPES:	BNC , Male DB9
PROTECTION:	Protected against accidental connection to external low voltage (Automatic Reset).

PPS OUTPUT CHANNELS:	DESCRIPTION
PULSE INPUT CONFIGURATION OPTIONS:	Choice of use as a single input to 10 outputs or two separate 5 channel systems selectable via front panel switch.
PULSE SPECIFICATION:	Fixed pulse output function (nominal 10 mS). Positive or negative edge trigger. Invert output signal. Channels are independently configurable in both 10 & 5 channel modes.

RS232 SPECIFICATION:	DESCRIPTION
DATA RATE:	1200-9600 Baud Typical
RS232 BI-DIRECTIONAL COMS:	2x Bidirectional isolated RS232 Channels. (MAIN IN A to ISOL A IN/OUT), (MAIN IN B to ISOL B IN/OUT)
RS232 SINGLE-DIRECTIONAL COMS:	8x single-directional isolated RS232 Channels. (Choice of use as a single input (A) to 8 outputs or two separate 4 channel systems selectable via front panel switch)
CONNECTORS:	DB9 fitted to rear panel
RS232 PROTECTION:	Protected against accidental short circuit or accidental connection to external low voltage (Automatic Reset).
ISOLATION:	All RS232 channels galvanically isolated (rated at 50 volts maximum)

PHYSICAL SPECIFICATION:	DESCRIPTION
DIMENSIONS:	482 mm W x 238 mm D x 86 mm H (19" Rack 2U)
WEIGHT:	2.7kg
MATERIAL:	Anodised aluminium
IP RATING:	IP20 Intended for use only in a protected or indoor environment
OPERATING TEMPERATURE:	0°C to 45°C
HUMIDITY:	0 to 90% none condensing

All information contained in this brochure may be subject to change without prior notice.

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