STARLOG

HSIO-to-HSIO Interface

Model 6120A

The Model 6120A HSIO-to-HSIO Interface is used to connect two STARLOG HSIO masters together and allow them to exchange data via their Serial I/O channel (s).

The Interface acts as an intermediate buffer which holds up to 4 x 16 bit data sent to it by the HSIO/Sensor (using a SEROUT instruction) until a request is made to send this data to the HSIO/Recorder (using a SERIN instruction).

Using this Interface it is possible to connect a STARFLOW (Model 6526A) to any data logger in the STARLOG range. The Interface makes a STARFLOW appear similar to other serial instruments. More than one interface/STARFLOW may be daisy-chained into one Logger.

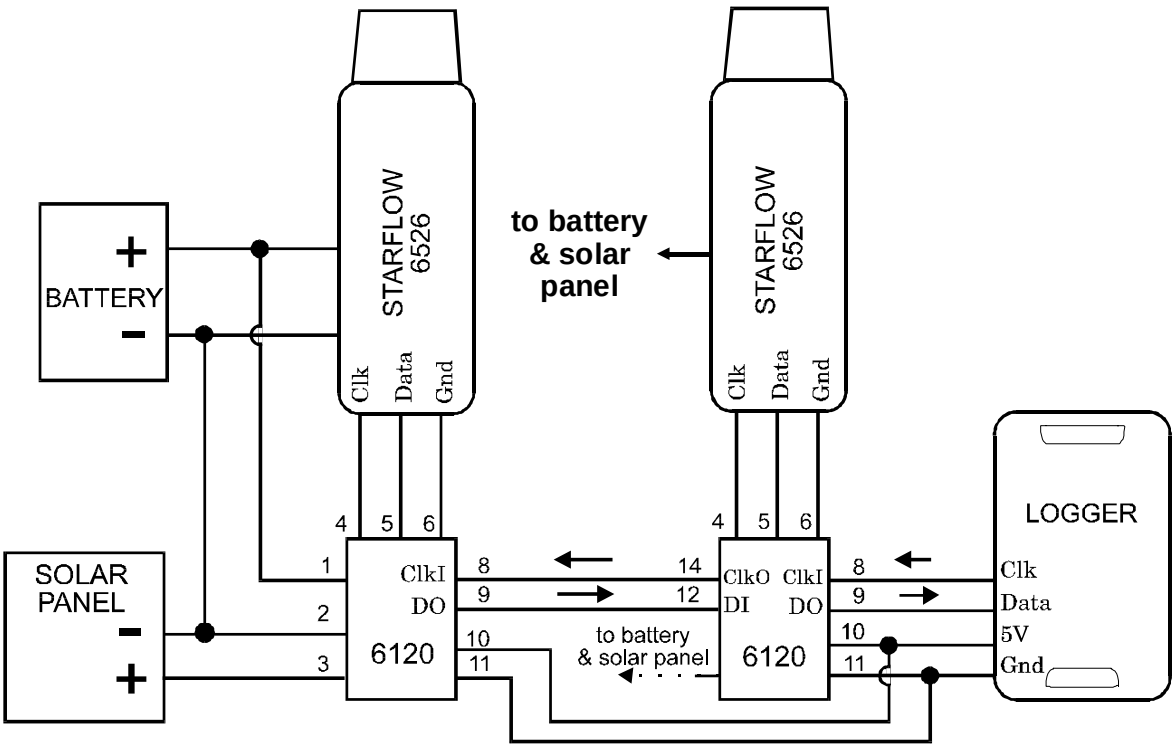
Each Interface may be configured to exchange any combination of four (2 byte) HSIO channels. The Interface must be configured using the 8 way DIL switch:

Function	Switch settings							
	1	2	3	4	5	6	7	8
1 reading (2 bytes)	On	Off	Off	Off	On	Off	Off	Off
2 readings (4 bytes)	Off	On	Off	Off	Off	On	Off	Off
3 readings (6 bytes)	Off	Off	On	Off	Off	Off	On	Off
4 readings (8 bytes)	Off	Off	Off	On	Off	Off	Off	On

» Note: When using the Interface with a STARFLOW (or other MicroLogger-compatible product), configure the instrument (using the Configuration Editor) to be a HSIO/Sensor or Recorder instead of using the SEROUT/SERIN instructions.

Terminal	From	Description
1	Battery & Solar Panel	Battery +ve (+12VDC nominal)
2		Battery -ve (ground)
3		Battery +ve (normally unused)
4	HSIO/Sensor	Clock In
5		Data In (from Sensor)
6		Ground
7		Data Out §
8	HSIO/Recorder	Clock In
9		Data Out (to Recorder)
10		Sync (5V)
11		Ground
12		Data In ‡
13	HSIO/Sensor	Clock Out §
14	HSIO/Recorder	Clock Out ‡

‡ Used to connect more than one HSIO Sensor to the HSIO/Recorder.
§ Used to connect more than one Interface to the HSIO/Sensor.



Example of Interface Connection