

HLT100C HIGH LEVEL TRANSDUCER INTERFACE MODULE (REV 2 FOR MP160)

The HLT100C module is used to interface all high level output transducers to the MP System. The HLT100C module provides 16 input and 2 output channels. The HLT100C is similar in function to the UIM100C Universal Interface Module, but it also provides power to the transducer when making a connection. The HLT100C is also the standard interface module provided with the MP160 System.

! Newer HLT100C “Rev 2” units, shipped with MP160 Systems and indicated “Rev 2” on the part number /barcode label, cannot physically be used with MP150+UIM combination or an IPS100C. For MP150 with UIM100C, use the HLT100C-MP150.

High level output transducers and adapters connect to the HLT100C via standard 6 pin RJ11 type connectors. Transducers and adapters that presently require the HLT100C module are:

TSD109 C/F: Tri-axial Accelerometers	TSD150 A/B: Active Electrodes
TSD111A Heel/Toe Strike Transducer	INISOA Input Signal Isolator
TSD115 Variable Assessment Transducer	OUTISOA Output Signal Isolator
TSD116 A/B/C: Switches and Markers	DTU100 Digital Trigger Unit (MRI Synchronization)
	NIBP-MRI Noninvasive Blood Pressure for MR

Alternatively, the HLT100C module can be used to connect mains powered external equipment to the MP System when the system also connects to electrodes attached to humans.

IMPORTANT USAGE NOTE

To provide the maximum in subject safety and isolation, use electrically isolated signal adapters to connect mains powered external equipment (i.e., chart recorders, oscilloscopes, etc.) to the MP System. Use the INISOA adapter to connect to MP analog system inputs and the OUTISOA adapter to connect to analog system outputs.

HARDWARE SETUP

- **See also:** setup notes for external devices and channel contention issues.

Connect the HLT100C to the right side of the MP160 and connect amplifier modules to the right side of the HLT100C as shown below:



High level output transducers (e.g., TSD109 Tri-Axial Accelerometer) or active electrodes (e.g., TSD150A Active Electrode) connect via the 16 analog RJ11 jacks on the front of the HLT100C. Up to 16 analog channels can be used at the same time, as long as there are no other analog channels in use by the UIM100C module or by other BIOPAC modules.

NOTE: If active electrodes are used, it may be necessary to attach a single ground lead to the UIM100C via the GND A terminal on the back of the module.

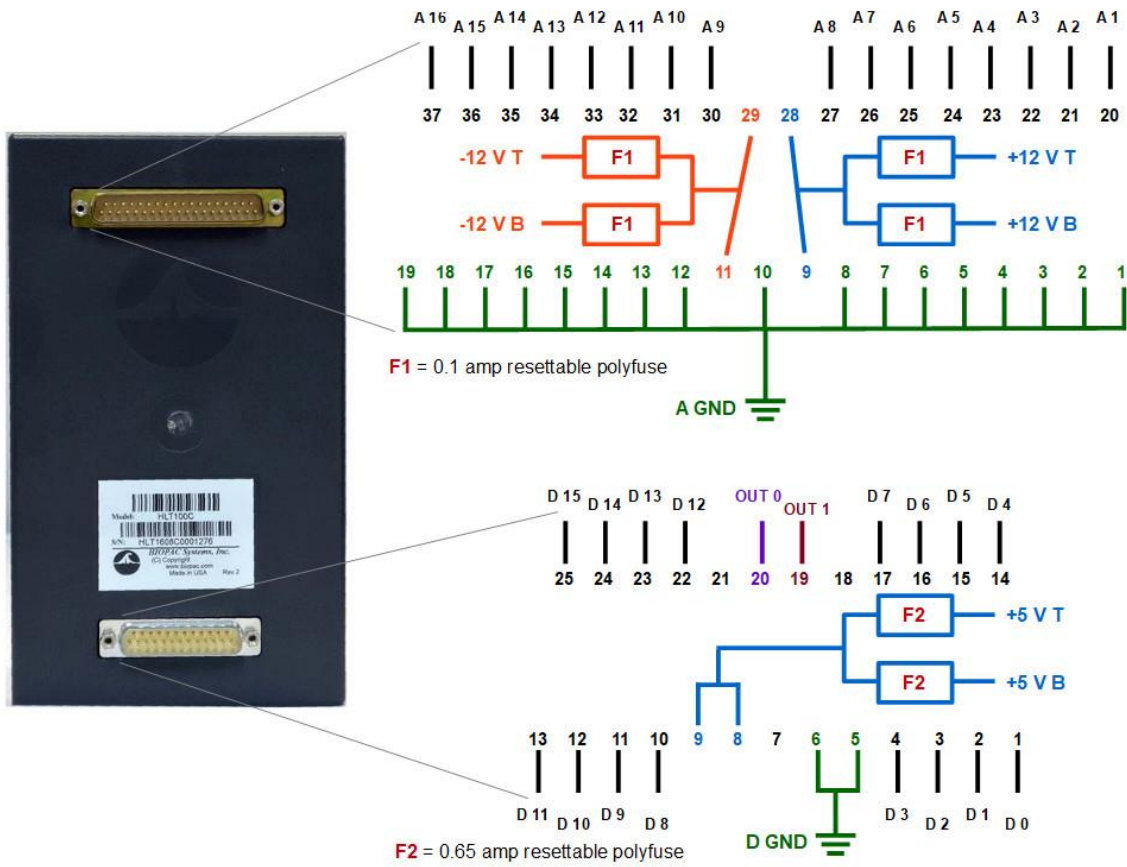
IMPORTANT!

If contention exists, the channel data will be corrupted. For example, if four channels [Ch.1-4] were in use by the UIM100C, then only 12 channels [Ch. 5-16] could be used by the HLT100C.

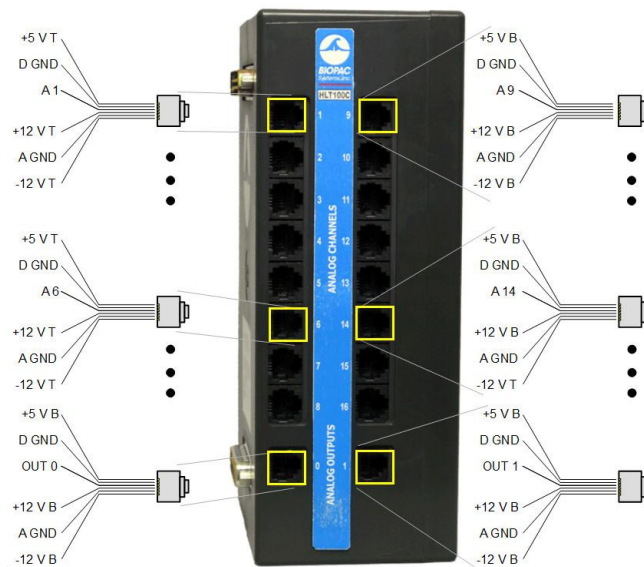
HLT100C SPECIFICATIONS

Transducer Inputs:	16 channels (front panel) – RJ11 jacks
System D/A Outputs:	2 channels (front panel) – RJ11 jacks
Isolated Power Access:	±12 V, +5 V @ 100 ma (via all RJ11 jacks)
Weight:	540 grams
Dimensions:	7 cm (wide) x 11 cm (deep) x 19 cm (high)

PIN OUTS



DSUB37 and DSUB25 Connectors



6-Position Modular Jacks