PIB-A

Analogue input board with single ended inputs.

The analogue input board measures analogue input voltages of 10 mV up to 2 V FS. The board has seven input channels. An extra (internal) channel is used to measure the zero level. This gives the board excellent specifications for zero stability and temperature drift. The reference used on the board is of high quality so that the range accuracy and stability are very good. Each board is calibrated individually. The calibration factors are stored in an EEPROM on the board.

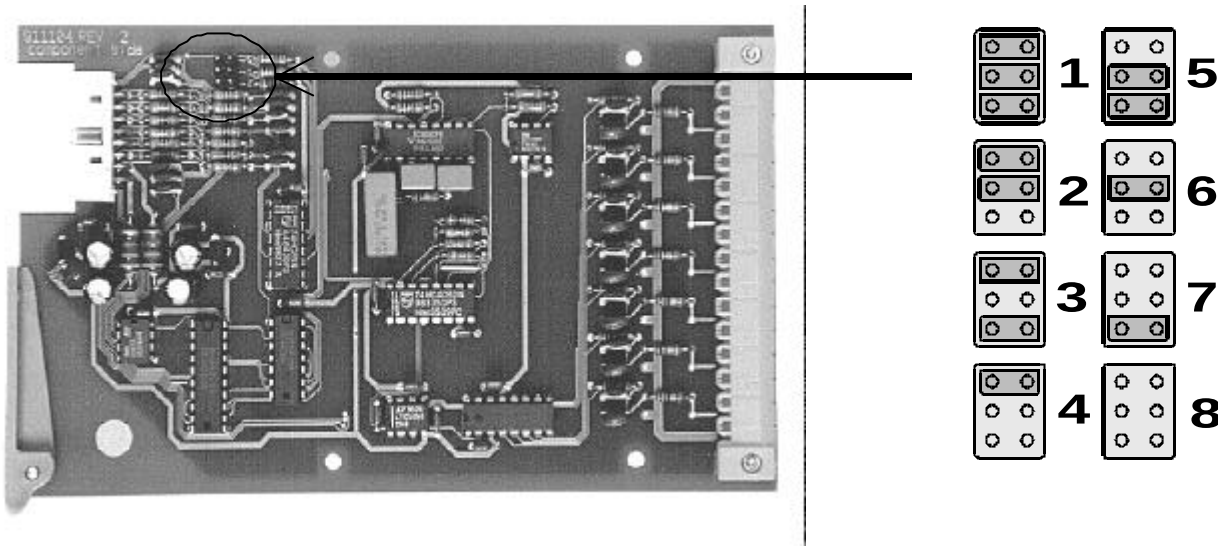
The technical specifications are:

Width in TE's (see PRW)	4
Power requirements:	+/-15VDC, 50mA
Measuring channels: #1 through 7	Analogue inputs
Input type:	bipolar, single ended, common ground
Input impedance:	200 kOhm
Jumpers:	station number
Operating temperature:	-10...+50^{o}C
Storage temperature:	-20...+70^{o}C
Accuracy:	0.1%
A/D converter input range	+/- 1V
Sensitivity settings:	+/- 2 V, +/- .2 V, +/-40 mV, +/-10 mV
Zero stability:	<0.3µV/^{o}C
Resolution:	32.000 counts
A/D type:	dual slope integrating with 50 Hz suppression

The signal connections are:

Connector pin number	Signal
1	0 V
2	0 V
3	+ signal input 7
4	0 V (- signal input 7)
5	+ signal input 6
6	0 V (- signal input 6)
7	+ signal input 5
8	0 V (- signal input 5)
9	+ signal input 4
10	0 V (- signal input 4)
11	+ signal input 3
12	0 V (- signal input 3)
13	+ signal input 2
14	0 V (- signal input 2)
15	+ signal input 1
16	0 V (- signal input 1)

The address of the board in a measuring station is set as follows:



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