

7.1.7 Analog A2 PCB Troubleshooting

7.1.7.1 Test point signals

The analog A2 PCB is provided with test points, marked: "TP" See figure 10.4: A2 PCB layout (wired components side). These can be used to check correct functioning of the PCB.

All measurements are made in the default MASTER RESET condition (start the measurements in the ScopeMeter using **MASTER RESET**).

A MASTER RESET is performed as follows:

1. Remove all signals from the ScopeMeter.
2. Power the ScopeMeter with the Power Adapter/Battery charger PM8907.
3. Turn off the ScopeMeter
4. Hold down the LCD key and press the ON/OFF key simultaneously. Two beeps are audible, and all volatile memories (RAM with battery backup) are reset. The ScopeMeter is automatically set to the meter mode.


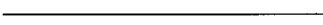

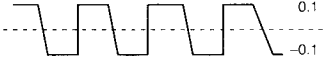
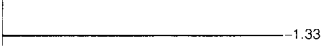
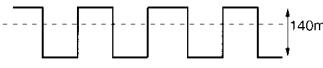
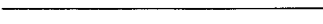


NOTE: For the measurements on Test Points 101...529 and 901...921 apply a 1 Volt, 10 kHz square wave signal to the channel A and channel B BNC. Press the SCOPE button to go to SCOPE mode and press AUTOSSET to get a stable picture on the LCD.

NOTE: For the measurements on Test Points 700...806 first switch on the ScopeMeter using a MASTER RESET. Then press the SPECIAL FUNCTION key and the GENERATE softkey. Use the select/adjust keys to select "square 1.95 kHz", and press the right most ENTER softkey to activate the generator.

Use another oscilloscope with high input impedance and 10:1 probe to measure the signals on the test points. See table 7.7:

Table 7.7 Overview signals on Test Points (TP) on analog A2 PCB

Logic 0=0V, Logic 1=+5V

TP	Name	Scope	Freq.	Data	Description
101			0		Base V2112
102			0		Output D2101
103			0		Output N2101
104			0		Collector V2105
106			0		Base V2104
107	ATTB--A		10 kHz		Collector V2111
108			0		TP for OFFSET DAC
109	POS-CHB		0		POS-CHB, moves at MOVE ↕
201			0		Base V2212