PO Box 18438, Sunward Park, 1470
Tel: 011-913-3262/3
Fax: 086-671-2985
ctt@compteltech.co.za
www.compteltech.co.za
VAT No: 4420154900
Reg No: 1995/008451/07

Computerised Telemetry Technologies (Pty) Ltd

PROGRAMMABLE TRANSMITTER

MODEL TXM55

The CTT Programmable DSP Transmitter was designed to operate in the mining environment on ANY of the DSP Fire Detection systems.

DESCRIPTION

- Programmable Frequency from 100Hz – 9,990Hz (10kHz)
- Direct replacement of the old Anglo transmitter module.
- Connect directly to the S1 / S2 telemetry cable exactly as the Anglo transmitter.
- One model only for the new 105chan SSP and older DSP88 and DSP128.
- Designed to work directly on the new AerView 2 or 3 SSP system.

CHARACTERISTICS

- Set three rotary BCD switches to the exact frequency.
- Display of the three rotary switches is the exact output frequency.
- **ZERO frequency drift over time.**
- Standard measuring points on the module for frequency, using a multi-meter.
- Frequency output similar to the Anglo transmitter.
- But available in any range from 100Hz to 10kHz.

TEST CERTIFICATES AND APPROVALS

- Designed for I/S conditions.

CONSTRUCTION

- Polyurethane encapsulated.
- Standard dimensions to fit into existing orange steel housing.

TECHNICAL DATA

Supply voltage	20V DC to 40V DC
Power consumption	30mA + sensor current
Frequency Range	100Hz – 10kHz
Channel	(3x) BCD Switch
Output	Modulated Sine Wave
Housing	Completely sealed in black epoxy mould
Explosion protection	Yes
Dimension	140 x 65 x 35mm
Weight	300 gram

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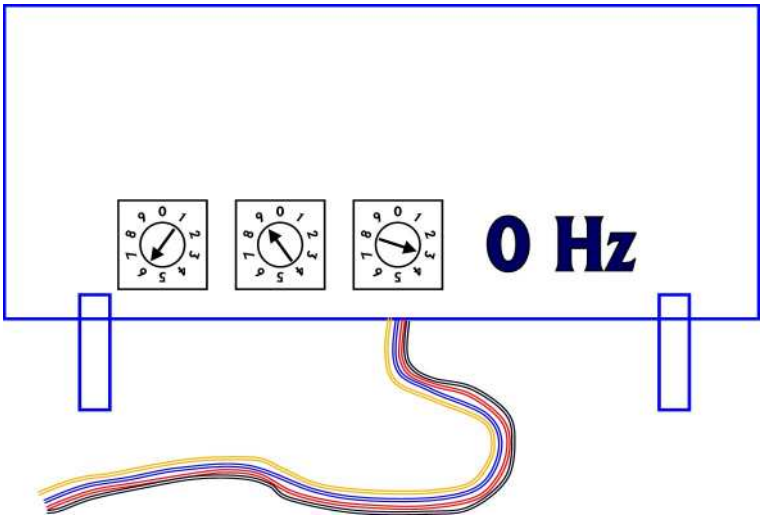
METHOD OF OPERATION

To adjust a transmitter to a desired channel frequency you must proceed as follows: -

- Place the DSP transmitter on a flat surface with the cable towards you,
- And the BCD switches visible on the top of the DSP transmitter.

- Adjust the rotary BCD switches for the desired frequency.
- If you require a frequency of 6930 Hz, adjust the BCD switches as below.



- Remember to DIAL the exact frequency with out the last 0 Hz as all ends in 0 Hz.
- Any frequency can be chosen and dialled before installation underground.

- Obtain a DVM multi-meter which has the ability to measure frequency,
- Preferably a FLUKE 177 (with a 0,01% tolerance and frequency band of 0-10kHz.
- Set the DVM to test frequency (AC - Hz).
- Wire all the transmitter connections into the orange transmitter box.
- Connect the frequency meter leads to the test points provided.
- Test with the multi-meter if the correct frequency was chosen.
- Remove the meter and re-insert the module by clipping it onto the G-rail.
- Any frequency can be chosen and dialled prior to installation underground.