

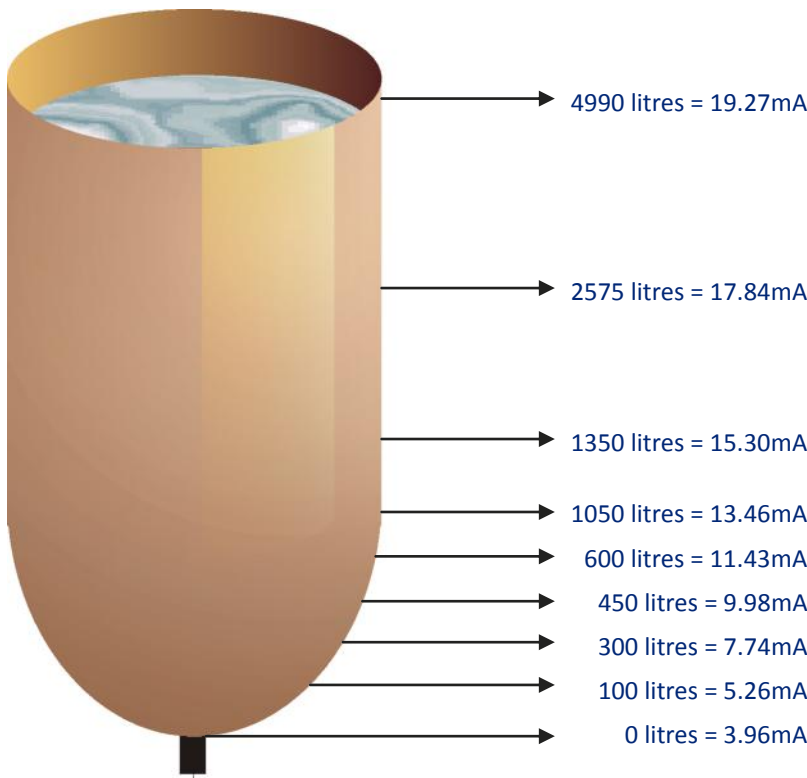
Tracker 300+ for Tank Contents Measurement

User Linearisation

The user linearisation feature allows the volume of a tank's contents to be calculated from the height of the material in that container. Up to 18 linearisation points can be entered in any order from anywhere in the measurement range. The table of linearisation points is stored in the instrument's memory. Extra points can be added at any time.

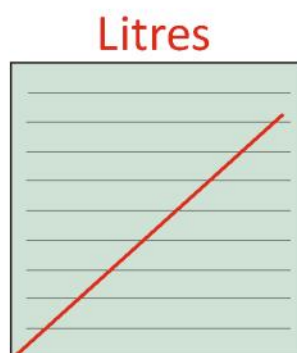
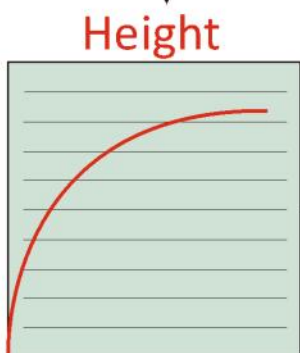
Each linearisation point consists of a volume value (e.g. litres) and a corresponding signal value (e.g. mA). The signal values can be entered manually, or the instrument can "read" the actual signal from the transducer that is measuring the material height.

Example: Using a pressure transmitter for tank volume measurement



	Eng. Units	Input level mA
1	0.	3.96
2	100.	5.26
3	300.	7.74
4	450.	9.98
5	600.	11.43
6	1050.	13.46
7	1350.	15.3
8	2575.	17.84
9	4990.	19.27

Values as displayed in the Tracker 300+ Setup program



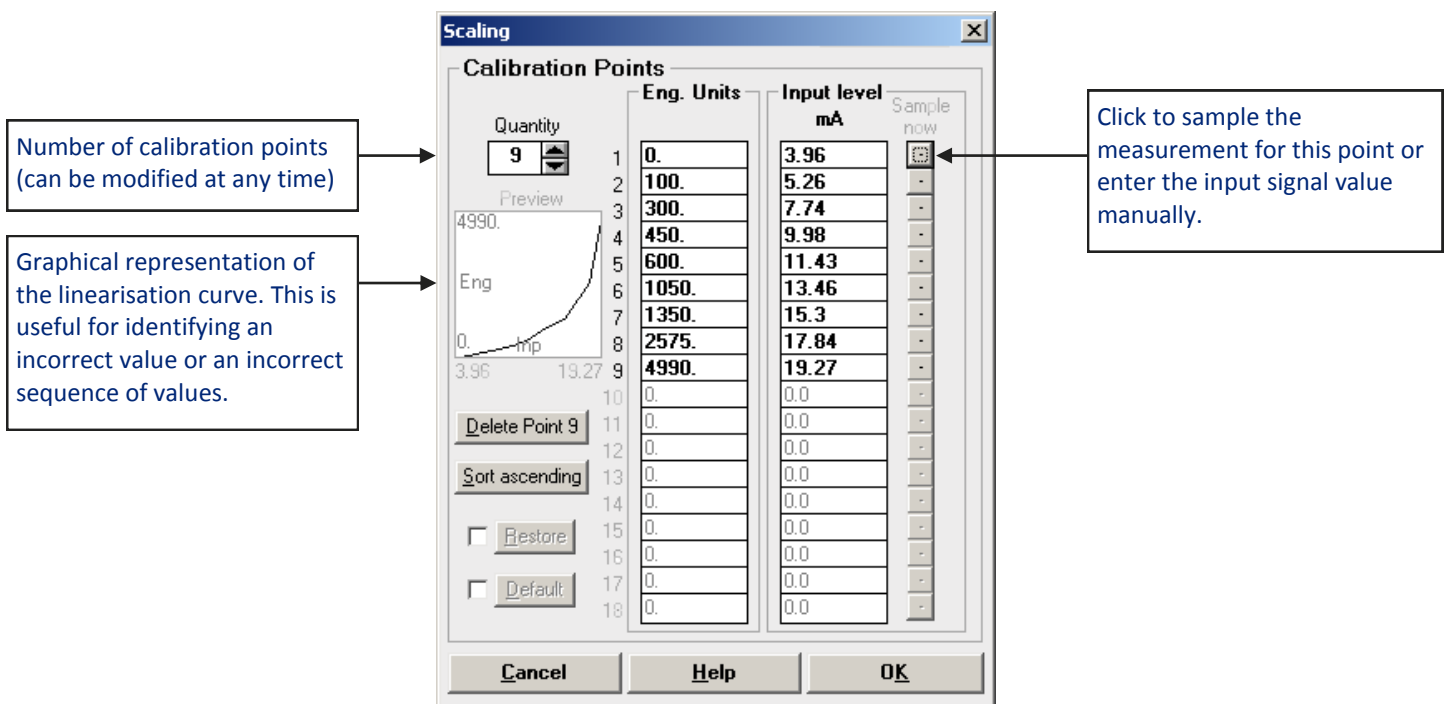
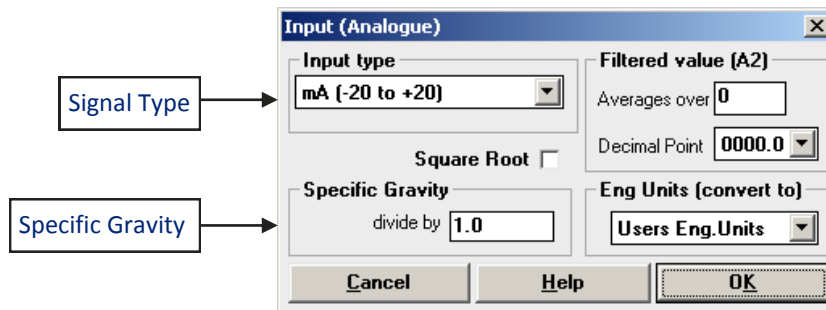
Isolated Outputs

- Analogue (e.g. 4-20mA)
- Communications (e.g. Modbus)
- Alarm Relays (e.g. High/Low)

Tracker 300+ Configuration Software

The configuration software (supplied with each unit) allows full setup of the instrument including the linearisation feature. Where a pressure sensor is used to measure liquid height, the system can be calibrated using water (SG=1). If other liquids are to be stored in the tank then the SG value can be modified to compensate as required.

The user selects the input signal type (mV, V, mA or Ohms) and then selects the scaling menu.



Notes:

- The user linearisation feature is standard in all Tracker 320 / 330 models.
- User linearisation can be used for some thermistor sensors (resistance) or any other sensor or signal where the process variable is not linear to the input signal.
- Linearisation for thermocouples and RTD sensors are built in to the instrument. The user linearisation feature is not used with these types of sensors.
- If a two wire (4-20mA) sensor is used, the Tracker 321 and 332 modules can provide a 24VDC excitation supply.
- If a local tank volume indication is required, consider the Tracker 220 series (24 points).

Your Local Distributor is:

Manufactured by Data Track Technology plc, UK
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CE All Tracker 300 units have been tested and comply with the European Directives on Electromagnetic Compatibility and safety and each carries the CE marking. The enclosure is manufactured in recyclable and flame-retardant materials.