



Acquisition • Measurement • Control



The Tracker Series

Digital Panel Meters

Signal Conditioners

Trip Amplifiers

PID Controllers

Data Acquisition

SCADA Software

TRACKER 200 SERIES 1/8th DIN PANEL METER RANGE

All Tracker panel meters have the following features unless stated otherwise:

- RS485 isolated serial communications interface, ASCII and MODBUS RTU (slave) protocols. (not Tracker 211)
- Windows PC configuration software available for all models (Tracker 211 requires special cable)
- Front Panel push buttons (optional on Tracker 211)
- Wide ranging 90-265VAC power supply input (low voltage isolated 10-32 VDC option – not Tracker 280)

Tracker
211



Low Cost, Universal Input

- Thermocouple, RTD, 20mA, 100mV, 10VDC & Resistance
- Temperature °C or °F; scaling to engineering units for process inputs
- 4 Digit red LED (green option)
- 10V and 24VDC sensor excitation and loop supply outputs
- 1 alarm relay (2 & 3 relay output options)
- Hidden configuration buttons (front buttons option)
- Isolated scaleable 4-20mA analogue output option
- Zero, Tare, Max/Min maths functions

Tracker
220



High Specification,
Universal Input

- Thermocouple, RTD, 20mA, 100mV, 10VDC & Resistance
- Temperature in °C, °F or K; scaling to engineering units for process inputs
- 4 & 5 Digit red LED (green option)
- 10V and 24VDC sensor excitation and loop supply outputs
- Dual relay outputs, function buttons and logic inputs options
- 24 Point user linearisation, Zero, Tare, Max/Min, and SG functions
- Isolated scaleable 0-10V / 4-20mA analogue output option
- Extensive alarm functions including delay, hysteresis and latching

Tracker
240



Load Cell and Weighing
Indicator / Controller

- 6 Wire measurement, 20 bit resolution
- Fast calibration features with smart input filter
- 5 Digit red LED (green option)
- 10VDC load cell excitation for up to 4 x 350 Ohm (24VDC option)
- Alarm / control outputs, function buttons and logic input options
- 8 Point user linearisation & Max/Min feature
- Isolated scaleable 0-10V / 4-20mA analogue output
- Fill control with In-flight, Trickle Feed, Zero, Tare functions

Tracker
250



Melt Pressure Indicator

- Strain gauge (mV) and mA inputs
- Fast calibration using the sensors calibration resistor
- 5 Digit red LED (green option)
- 10V and 24VDC sensor excitation and loop supply outputs
- Extensive alarm functions including delay, hysteresis and latching
- Isolated scaleable 0-10V / 4-20mA analogue output
- User programmable function buttons and logic inputs
- Alarm output options

Tracker
260



LVDT Indicator

- Ratiometric LVDT measurement, 20 bit resolution
- Fast calibration features with null position locator feature
- 5 Digit red LED (green option)
- Software selectable excitation voltage and frequency
- Alarm / control outputs, function buttons and logic input options
- Isolated scaleable 0-10V / 4-20mA analogue output
- Extensive alarm functions including delay, hysteresis and latching

Tracker
280



Timer Counter / Frequency &
Encoder Quadrature Measurement

- Dual high speed (150KHz) inputs for rate, totalisation and encoder
- De-bounce, low frequency cut off and scaling functions
- 6 Digit red LED models (green option). 12 digit totaliser function
- Sensor excitation supply outputs
- Alarm / control outputs, function buttons and logic input options
- 8 Point User linearisation & Max/Min feature (per channel)
- Isolated scaleable 0-10V / 4-20mA analogue output
- Extensive alarm functions including delay, hysteresis and latching

TRACKER 300 DIN RAIL MOUNTED PRODUCTS

The Tracker 320/330 models have the following features as standard:

- 90-265VAC power supply input (10-32VDC optional)
- Isolated RS485 Interface with ASCII and MODBUS RTU (slave) protocols
- 22.5mm wide enclosure for high packing density
- Windows PC configuration software available

Tracker 321



Data Acquisition and Signal Conditioner with Universal Input

- Thermocouple, RTD, 20mA, mV, 10VDC & Resistance - 24 bit resolution
- Temperature °C or °F scaling to engineering units for process inputs
- Thermocouple ageing alarm feature
- Comprehensive alarm functions
- 18 Point user linearisation feature
- 10V and 24VDC sensor excitation and loop supply outputs
- Zero, Tare, Max/Min and Square Root Extraction
- Optional isolated 0-10V / 4-20mA scaleable analogue – 15 bit resolution

Tracker 331



PID Controller / Dual Trip Amplifier

- As Tracker 321 but without excitation supply outputs
- Fully featured PID controller with auto tune
- Relay + SSR drive outputs (2 relays option, replaces SSR drive)
- Direct, reverse or heat/cool control actions
- Communication loss "self defence" functions
- Partial load failure alarm feature
- Optional isolated 0-10V / 4-20mA analogue output for use as a PID control output or for signal re-transmission / conditioning – 15 bit

Tracker 332



PID Controller / Signal Conditioner / Trip Amplifier

- As Tracker 321 – Requires a 340 module or analogue output option for PID
- Fully featured PID controller with auto tune
- Direct, reverse or heat/cool control actions
- Communication loss "self defence" functions
- Partial load failure alarm feature
- 10V and 24VDC sensor excitation and loop supply outputs
- Optional isolated 0-10V / 4-20mA analogue output for use as a PID control output or for signal re-transmission – 15 bit

Tracker 340



Logic Expansion Module

- Provides any 320/330 with 4 additional logic outputs (up to 6 with Tracker 331)
- Powered and controlled from a 320/330 unit
- Alarm relay or TTL output options
- High, low and deviation alarm functions
- On and off delay timers, hysteresis and alarm blocking features
- Front panel alarm LED indicators
- Outputs can be used for PID control (Trackers 331 & 332)
- 2 logic inputs for remote control functions or switch detection
- Many user programmable functions including tare, zero etc

Tracker 300 - CONF



Configuration Adapter

- Allows quick connection for configuration and diagnostic purposes
- Powered from a PC's RS232 port
- 1 metre long cable, plugs into a socket on the front panel
- Includes configuration and data acquisition software CD (also available separately)

Note: Configuration also possible via RS485 Interface
Software also available from our web site www.datatrackpi.com

300 - HMI Series



HMI Operator Interfaces

- Available in 144mm (5.7"), 195mm (7.7") and 264 (10.4") screen sizes
- 133MHz 32 Bit RISC processor
- RS485, RS323, Printer and Ethernet connectivity options
- Durable resistive touch screen, colour and black & white options
- Includes powerful PC Configuration
- Master/Slave communication protocols

SCADA SOFTWARE



Data Track supports the DCS/SCADA software package for PC's running the WINDOWS operating system. From simple "plug and play" data acquisition to bespoke and customisable systems, Data Track can provide the most cost effective, yet flexible solution.

Features include:-

- Full development tools provided
- Modbus RTU protocol compatible with Tracker 200 and 300 range
- Multiple drivers available allowing connection to other devices
- LAN or PSTN networking features
- Recipe and batch facilities
- Real time and historic trending with zoom functions
- Multiple sequence programming with easy to use language
- Microsoft Access, CSV, DDE and OPC data formats
- Data transfer between multiple systems using Netbios and TCP/IP
- Millisecond resolution timing functions
- Multiple password protection levels
- SMS, messaging, SMS control, E-mail and faxed reports

About Data Track Process Instruments

Innovative Market Leaders

Privately Owned UK Company

Training Centre in Hampshire, UK

Tracker Products Installed World-wide

Full Research and Development in-house

Offices in UK, Europe and North America

Over 3 Decades of Instrumentation Excellence



All Data Track products 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 re-cyclable and flame retardant materials.



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