



# TMI Shortform Catalog

Precision Making

[tmi.yokogawa.com](http://tmi.yokogawa.com)

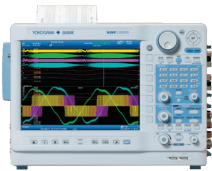
# Waveform Measurement Instruments



## Mixed Signal Oscilloscope DLM3000

Integrating the latest in “touchscreen” operation, solid-state storage, and high speed signal processing, the DLM3000 enhances productivity by providing clean signals, extensive processing, and ease of operation.

- 200, 350, and 500 MHz mixed signal oscilloscope
- 2 or 4 input channels, plus 8-bit logic input
- Up to 2.5 GS/sec sampling, 250 MPts memory
- Comprehensive trigger functions combine analog, logic inputs, or serial bus triggers for complex waveforms
- Serial bus analysis, power supply analysis, and advanced built-in math functions



## ScopeCorder DL850E/DL850EV

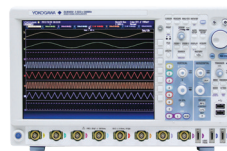
A ScopeCorder is a powerful, portable data acquisition recorder and oscilloscope that can capture and analyze both transient events and trends, up to 200 days.

- 19 unique input modules combine measurements of electrical signals, physical (sensors) and CAN / LIN / SENT serial buses
- 2 Gpts of internal memory, plus real-time streaming to computer, internal or external disk drives
- Real-time math and waveform analysis for electric power measurements
- DL850EV Vehicle Edition for engineers in the automotive and railway industry
- USB, GPIB, Ethernet, IRIG and GPS interface options



## High Speed DAQ SL1000

- Maximum of 128 input channels
- Unique modular inputs allow for sample rates up to 100 MS/s with input isolation
- Simultaneously acquires up to 4 independent sample rates
- Stream data directly to PC hard drive
- Out-of-the-box software solution – standard acquisition software included
- Real-time display on PC



## Mixed Signal Oscilloscope DLM4000 Series

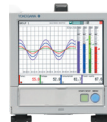
- 350 and 500 MHz mixed-signal oscilloscope
- 8 analog input channels, plus 8, 16 or 24 bits digital input
- Up to 2.5 GS/sec sampling, 250 MPts memory and 50,000 history memory segments
- High resolution 12.1 inch LCD display
- Serial bus analysis, power supply analysis, and advanced built-in math functions



## ScopeCorder DL350

A portable version of the DL850E/DL850EV with many of the same data capture and analysis features in a device roughly 50% the weight of a DL850E.

- Acquire sensor, analog and digital data with 18 unique input modules including the ability to capture CAN/LIN/SENT serial data
- Built-in 16 bits of digital (discrete) input for comparing analog data to digital switches or pulses
- Up to 100 MPts per module internal memory, up to 50 days continuous recording to SD card
- A4-sized compact chassis with a 8.4 inch TFT resistive touch screen
- Battery power for up to 3.5 hours



## Portable SMARTDAC® GP10/20, GM10

- Modular construction, scalable up to 100 input channels on one unit
- Modules can support measurement of TC, DCV, RTD, and DI
- Fast selectable scan intervals from 100 msec to 5 sec
- Secure and reliable data storage to both internal (up to 1.2 GB) and external (up to 32 GB) storage media



## Current/Differential Probe

- Current probe bandwidth DC to 2/10/50/100 MHz
- Current probe measurement: max. 5/30/150/500 A
- Differential probe bandwidth DC to 150 MHz
- Differential probe measurement: 7000 V peak
- No external amplifier required with DL Series



## Precision Power Analyzer WT5000

The WT5000 is the Next Generation in Precision of Yokogawa's Power Analyzers product line. It is a versatile platform that delivers extraordinary precision and exceptional performance for the most demanding applications.

- Basic power accuracy: 0.03% of reading
- 10MS/s, 1MHz power bandwidth
- Support for up to 4 motors
- 7 user swappable input elements
- Intuitive touchscreen display



## Precision Power Scope PX8000

The world's first precision power scope, bringing oscilloscope-style time-based measurement power measurement. It can capture voltage and current waveforms precisely, opening up applications and solutions for a huge variety of emerging power measurement problems.

- 12-bit resolution, 20 MHz bandwidth
- Analyze cycle-by-cycle trends
- Measure Harmonics up to the 500th order



## High Performance Power Analyzer WT1800E

A high-precision, wide frequency range, digital power analyzer with up to six input elements.

- Basic power accuracy: 0.05% of reading
- Bandwidth DC, 0.1 Hz to 1 MHz
- Measures Harmonics up to 500th order
- Dual Harmonic Analysis
- 10mA to 5A or 1A to 50A current ranges
- Motor efficiency measurement option



## Power Analyzer WT500

Compact and easy to use. The power analyzer for the renewable energy generation.

- Simultaneous measurement of V, A, W, and harmonics
- High speed 100ms update rate
- Bandwidth DC, 0.5 Hz to 100 kHz
- 15 V to 1000 V voltage range
- 0.5 A to 40 A current range
- Numeric, waveform, and trend displays



## Power Meter WT310E/330E

Digital sampling power meter with superior cost performance in a compact, half-rack size.

- Basic power accuracy: 0.1% of reading
- Bandwidth DC, 0.1 Hz to 100 kHz
- 5mA to 20A or 1A to 40A current ranges
- Auto ranging during integration measurement
- USB/Ethernet/GPIB/RS232 and MODBUS TCP Communication Interface



## Precision Current Transformers

Designed for use with Power Analyzers for precision current measurements for an overall high accuracy power measurement system.

- Basic accuracy of 0.02% (ITZ Series) and 0.05% (IST Series) of full scale current
- Frequency Range DC to 100 kHz or higher
- CT Ranges: 60 A to 3000 A Peak (IST Series), 600 A to 5000 A Peak (ITZ Series)
- Includes power supply/signal conditioning unit and connecting cables





# General Purpose Instruments



## AC Power Calibrator LS3300

An AC power calibrator that can generate highly accurate, stable, and wide range output current and voltage.

- Ranges 10 mV - 2150 V and 0.3 mA to 62.5 A AC
- Basic power accuracy of 0.05% and phase angle resolution of  $\pm 0.03$  degrees of 50/60 Hz
- Frequency range of 40 - 1200 Hz



## Digital Multimeter, 6.5 Digits DM7560

- High speed data logging (Maximum 30 kS/s)
- High-capacity internal memory with up to 100 k points
- Trend / histogram analysis available both real-time and offline



## AC Voltage Current Standard 2558A

The instrument of choice for cost effective calibration of AC analog meters, current clamps and CT's.

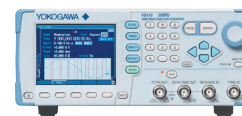
- Ranges 1 mV to 1200 V and 1 mA to 60 A AC
- Basic accuracy of 0.04%
- Frequency range 40 to 1000 Hz



## DC Calibrators 2553A, 2560A

Ideal calibration source for DC measuring instruments and temperature measuring instruments and controllers.

- 2553A ranges 10 mV to 30 V and 1 mA to 100 mA DC. Basic voltage accuracy  $\pm 75$  ppm
- 2560A ranges 100 mV to 1000 V and 100  $\mu$ A to 30 A DC. Basic voltage accuracy  $\pm 50$  ppm
- Both offer 10 different types of thermocouples and Pt100 RTD



## Function Generator FG400

Easily generate basic, application specific and arbitrary waveforms.

- 0.01  $\mu$ Hz to 30 MHz. 20 Vp-p. 1 or 2 Channels
- Output channels are isolated from ground
- Synchronize up to 6 units for up to 12 output channels
- Provides a variety of sweeps, modulations and waveform functions



## Programmable DC Source GS200

- High precision low noise output
- Voltage source to 32 V
- Current source to 200 mA
- Source and Measure
- GPIB and USB Interface



## Source Measure Unit GS820, GS610

The GS820 and GS610 precision DC source/measure units have extremely high value and cost performance.

- Source and sink operation up to 110 V/ 3.2 A
- Curve Tracer Software available (sold separately)



## Digital Manometer MT210

14 models for precision pressure measurement.

- Basic accuracy: 0.01% of reading
- Models for gauge, absolute, & differential pressures
- Ranges from 1 kPa differential to 3000 kPa gauge
- D/A and comparator output functions

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