

**NEW**

YOKOGAWA 


## Reliable and Convenient for Maintenance Digital Multimeter


TY500 series Built-in Memory Type TY530 / Standard Type TY520

### Based on Safe Design, Supporting Various Maintenance Applications

- **High Precision**
  - Basic accuracy 0.09%
  - True RMS measurement
- **Ensured Field Site Safety**
  - Conforms to safety standards EN61010-1 1000V CAT. III, 600V CAT. IV
  - Safety shutters for preventing erroneous insertion of test leads into current measurement terminals
- **New Functions for Yokogawa Middle Class DMMs**
  - Current direct reading function provided by current clamp sensor (optional)
  - Low-pass Filter (LPF)
  - Logging-mode memory for 1600 data\*
  - USB communication, application software\* (Optional DMM communication package)
  - \*TY530 only
- **Closed Case Calibration**



 Built-in Memory Type  
**TY530**  
Standard type  
**TY520**



Yokogawa Meters & Instruments Corporation

LF TY700/TY500-E

**NEW**

YOKOGAWA 

## High Accuracy & Performance Digital Multimeter

TY700 series Advanced Type TY720 / Standard Type TY710

### Most Reliable Handheld DMM

- **Highest Precision**
  - Basic accuracy 0.020%
  - True RMS measurement
- **New Functions for Electronic and Industrial Use**
  - Simultaneous measurement and display of DC and AC
  - Switchable RMS/MEAN detection\*
  - Low-pass Filter (LPF)\*
  - AC50mV range\*
  - Lo-Power resistance measurement\*
  - \*TY720 only
- **Full Support for Data Management**
  - A large-capacity logging-mode memory  
TY720: 10,000 data  
TY710: 1,000 data
  - USB communication, application software (Optional DMM communication package)
- **Safe Design and Wide Temperature Range for Harsh Use**
  - Conforms to safety standards EN61010-1 1000V CAT. III, 600V CAT. IV
  - Safety shutters for preventing erroneous insertion of test leads into current measurement terminals
  - Operating temperature range -20 to +55°C
  - Storage temperature range -40 to +70°C
- **Closed Case Calibration**



 Advanced type  
**TY720**  
Standard type  
**TY710**



Yokogawa Meters & Instruments Corporation

LF TY700/TY500-E

Model and Specification Code

Table with 2 columns: Name, Model. Includes Digital Multimeter models TY710 and TY720.

Optional Accessories

Table with 3 columns: Name, Model, Specification. Lists various accessories like communication packages, printer adapters, and test leads.

TY700 General Specifications

Measurement Functions: DC voltage, AC voltage, DCV+ADC, DC current, AC current, DCA+ACA, resistance, frequency, temperature, capacitance, duty cycle, diode test, continuity check, diode test, low-power resistance (TY720 only).

Measuring Rate: ~6 times/sec. Operating Temp. and Humidity: -20 to 55°C, 80% RH or less. Storage Temp. and Humidity: -40 to 70°C, 70% RH or less.

Performance

Test conditions: Temperature and humidity = 23 ± 5°C, 80% RH or less; Accuracy = ± (% rdg + dgt). Note: A response time is the time required for achieving the accuracy specified for the corresponding range.

DC Voltage Measurement (=V) table with columns: Range, Resolution, Accuracy TY710, TY720, Input Resistance, Maximum Input Voltage.

DC Current Measurement (=A) table with columns: Range, Resolution, Accuracy TY710, TY720, Voltage Drop, Maximum Input Current.

AC Voltage Measurement [RMS] (-V) table with columns: Range, Resolution, Accuracy (TY710, TY720), Input Impedance, Maximum Input Voltage.

AC Current Measurement [RMS] (-A) table with columns: Range, Resolution, Accuracy (TY710, TY720), Voltage Drop, Maximum Input Current.

AC Voltage Measurement [MEAN] (-V) table with columns: Range, Resolution, Accuracy (TY710, TY720), Input Impedance, Maximum Input Voltage.

AC Voltage Measurement [MEAN] (-A) table with columns: Range, Resolution, Accuracy (TY710, TY720), Voltage Drop, Maximum Input Current.

DCV + ACV (=+/-) table with columns: Range, Resolution, Accuracy (TY710, TY720), Input Impedance, Maximum Input Voltage.

DCA + ACA (=+/-) table with columns: Range, Resolution, Accuracy (TY710, TY720), Voltage Drop, Maximum Input Current.

Resistance Measurement (Ω) table with columns: Range, Resolution, Accuracy (TY710, TY720), Maximum Testing Current, Open-circuit Voltage, Input Protection Voltage.

Diode Test (->) table with columns: Range, Resolution, Accuracy TY710, TY720, Testing Current (Vf = 0.6 V), Open-circuit Voltage, Input Protection Voltage.

Low-power Resistance Measurement (LP-Ω) table with columns: Range, Resolution, Accuracy (TY710, TY720), Maximum Testing Current, Open-circuit Voltage, Input Protection Voltage.

Capacitance (-F) table with columns: Range, Resolution, Accuracy (TY710, TY720), Input Protection Voltage.

Continuity Check (-) table with columns: Range, Resolution, Continuity Buzzer (TY710, TY720), Testing Current, Open-circuit Voltage, Input Protection Voltage.

Temperature Measurement (TEMP) table with columns: Range, Resolution, Accuracy (TY710, TY720), Input Protection Voltage.

YOKOGAWA Yokogawa Meters & Instruments Corporation

World Wide Web site at http://www.yokogawa.com/MCC. NOTICE: Before using the product, read the instruction manual carefully to ensure proper and safe operation.

Table listing international sales offices for Yokogawa Corporation of America, Europe, Asia, Korea, Australia, India, China, Middle East, and Russian Federation.

Represented by: Section featuring images of current clamp probes (96036, 96033, 96030, 96031, 96032, 96034, 96035) and their specifications.

Model and Specification Code

Table with 2 columns: Name, Model. Includes Digital Multimeter models TY520 and TY530.

Optional Accessories

Table with 3 columns: Name, Model, Specification. Lists various accessories for the TY500 series.

TY500 General Specifications

Measurement Functions: DC Voltage, AC voltage, DC current, AC current, resistance, frequency, temperature, capacitance, continuity check, diode test.

Measuring Rate: ~5 times/sec. Operating Temp. and Humidity: -10 to 55°C, 70% RH or less. Storage Temp. and Humidity: -30 to 70°C, 70% RH or less.

Performance

Test conditions: Temperature and humidity = 23 ± 5°C, 80% RH or less; Accuracy = ± (% rdg + dgt). Note: A response time is the time required for achieving the accuracy specified for the corresponding range.

DC Voltage Measurement (=V) table with columns: Range, Resolution, Accuracy TY520, TY530, Input Resistance, Maximum Input Voltage.

DC Current Measurement (=A) table with columns: Range, Resolution, Accuracy, Voltage Drop, Maximum Input Current.

AC Voltage Measurement (-V) table with columns: Range, Resolution, Accuracy (TY520, TY530), Input Impedance, Maximum Input Voltage.

AC Current Measurement (-A) table with columns: Range, Resolution, Accuracy (TY520, TY530), Voltage Drop, Maximum Input Current.

Resistance Measurement (Ω) table with columns: Range, Resolution, Accuracy, Maximum Testing Current, Open-circuit Voltage, Input Protection Voltage.

Diode Test (->) table with columns: Range, Resolution, Accuracy, Testing Current (Vf=0.6V), Open-circuit Voltage, Input Protection Voltage.

Frequency Measurement (Hz) table with columns: Range (auto-ranging), Resolution, Accuracy, Input Voltage Range.

Capacitance (-F) table with columns: Range, Resolution, Accuracy, Input Protection Voltage.

TY Series Common Accessories

Images and descriptions of common accessories: 92015 DMM communication package, 97016 Communication package for printer, 98015 Test leads, 99014 Test leads with Alligator Clip, 97010 Printer, 90055 TC-K temperature probe, 96001 Current clamp probe, 93029 Carrying case.

Table listing current clamp probes (96036, 96033, 96030, 96031, 96032, 96034, 96035) with specifications for range, resolution, accuracy, and input protection voltage.