Specifications

Input			
Parameter	Voltage	Current (5A input element)	Current (50A input element)
Input type	Floating input		
put typo	r routing input		

Farameter	voilage	Current (3A input element)	Current (30A input element)					
Input type	Floating input							
	Resistive potential division method	Shunt input method						
Rated value (range-value)	1.5/3/6/10/15/30/60/100/150/300/600/1000V	Direct input: 10m/20m/50m/100m/200m/500m/1/2/5A External input: 50m/100m/250m/500m/1/2.5/5/10V	Direct input: 1/2/5/10/20/50A External input: 50m/100m/250m/500m/1/2.5/5/10V					
Instrument loss (input resistance)	Approximately 2MΩ	Direct input: Approximately $100m\Omega + Approximately 0.07\mu H$ External input: Approximately $100k\Omega$	Direct input: Approximately $2m\Omega + Approximately 0.07\mu H$ External input: Approximately $100k\Omega$					
Instantaneous maximum allowed input (1 cycle, for 20 ms)	Peak voltage of 4 kV or rms of 1.5 kV (whichever is lower)	Peak current of 30 A or rms of 15 A (whichever is lower) External input: Peak not to exceed 10 times range-value	Peak current of 450 A or rms of 300 A (whichever is lower) External input: Peak not to exceed 10 times range-value					
Continuous maximum allowed input	Peak voltage of 1.5 kV or rms of 1 kV (whichever is lower)	Peak current of 10 A or rms of 7 A (whichever is lower) External input: Peak not to exceed 5 times range-value	Peak current of 150 A or rms of 50 A (whichever is lower) External input: Peak not to exceed 5 times range-value					
Continuous maximum in-phase voltage (50/60 Hz)	600 Vrms CATII							
Common mode rejection ratio (600 Vrms)		with voltage input terminals shorted and current input terminals open) 50/60 Hz: ±0.01% of rng or less (±(0.01 x 15/(rated value of rng))% of rng or less for 10-V rng or less). Up to 100 kHz: Reference value ±(0.1 x 1% of rng) or less, (±(0.1 x 1 x 15/(rated value of rng))% of rng or less for 10-V rng or less), but no less than 0.01%; frequency unit; kHz						
Input terminal type	Plug-in terminal (safety terminal)	Direct input: Large binding post (frequency band of assured accuracy: up to 1 MHz for the 5 A terminal, up to 100 kHz for the 50 A terminal). Current sensor input: BNC connector (frequency band of assured accuracy: up to 500 kHz).						
A/D converter	Voltage/current input simultaneous conversion,	Voltage/current input simultaneous conversion, 16-bit resolution, conversion speed of approximately 5 µsec						
Switching range-value	Range-value can be set independently for each	element, through manual setting, automatic setting	ng, or online setting					
Auto-range function		ed when rms exceeds 110% of rated value or peak lecreased when peak is 300% or less of lower ran						

Measurement Functions

Method	Digital multiplication method								
Crest factor	3 (when rated value of the measurement range is input) However, it is 2 for the 1000 V range.								
Temperature: 23 ± 3°C	Frequency	Voltage/Current	Power						
Humidity: 30 to 75%RH	DC	0.1% of rdg + 0.2% of rng	0.1% of rdg + 0.2% of rng						
Input waveform: Sinewave In-phase voltage: 0 V	0.5 Hz ≤ f < 10 Hz	0.1% of rdg + 0.2% of rng	0.2% of rdg + 0.3% of rng						
Line filter: OFF	10 Hz ≤ f < 45 Hz	0.1% of rdg + 0.1% of rng	0.1% of rdg + 0.2% of rng						
Power factor: cosø = 1	45 Hz ≤ f ≤ 66 Hz	0.1% of rdg + 0.05% of rng	0.1% of rdg + 0.05% of rng						
Specified following zero level correction or range-value change after	66 Hz < f ≤ 1 kHz	0.1% of rdg + 0.1% of rng (Voltage, 5A input element current direct input and external input) 0.2% of rdg + 0.1% of rng (50A input element current direct input)	0.2% of rdg + 0.1% of rng						
warmup period ends. 3- month accuracy Unit for f in accuracy calculation equation:kHz	1 kHz < f ≤ 50 kHz	0.3% of rdg + 0.1% of rng (Voltage, 5A input element current direct input) (0.015 \times f + 0.3)% of rdg + 0.1% of rng (External input) (0.1 \times f + 0.2)% of rdg + 0.1% of ng (50A input element current direct in	0.3% of rdg + 0.2% of rng (Voltage, 5A input element current direct input) (0.02 × f + 0.3)% of rdg + 0.2% of rng (External input) ut) (0.1x+0.2)% of rdg + 0.2% of rng (50A input element current direct input)						
	50 kHz < f ≤ 100 kHz	0.6% of rdg + 0.2% of rng (Voltage, 5A input element current direct input) (0.009 × f + 0.6)% of rdg + 0.2% of rng (External input) (0.1 × f + 0.2)% of rdg + 0.2% of rng (50A input element current direct in	, , , , , , , , , , , , , , , , , , , ,						
	100 kHz< f ≤ 500 kHz	0.006*f% of rdg + 0.5% of rng (Voltage, 5A input element curl direct input) $(0.03 \times f\text{-}1.5)\% \text{ of rdg} + 0.5\% \text{ of rng (External input)}$	$\begin{array}{l} 0.008 \mbox{"f}\% \mbox{ of rdg} + 1\% \mbox{ of rng (5A input element current direct input)} \\ (0.06 \times \mbox{f} - 4)\% \mbox{ of rdg} + 1\% \mbox{ of rng (External input)} \end{array}$						
	500 kHz< f ≤ 1 MHz	(0.022 × f-8) of rng + 1% of rng (Voltage, 5A input element current direct input)	(0.048 × f - 20) of rdg + 2% of rng (5A input element current direct input)						
	Power factor effect ø: Voltage and current phase angle								
Effective input range									
One-year accuracy	1.5 times tolerance for 3	B-month accuracy reading							
Line filter function	Measurement can be m	ade with a line filter inserted in the input circuit. Cutoff frequen	y (fc): 500 Hz or 5.5 kHz						
Line filter on accuracy	Cut-off frequency of 500 Hz: Voltage, current: Add 0.2% of rdg in range of 45 to 66 Hz. Under 45 Hz, add 0.5% of rdg. Power: Add 0.3% of rdg in range of 45 to 66 Hz. Under 45 Hz, add 1% of rdg. Cutoff frequency of 5.5 kHz: Voltage, current: Add 0.2% of rdg under 66 Hz. At 66 Hz to 500 Hz, add 0.5% of rdg. Power: Add 0.3% of rdg under 66 Hz. At 66 Hz to 500 Hz, add 1% of rdg.								
Temperature coefficient	±0.03% of rdg/°C at 5 to	20°C and 26 to 40°C							
Conditions for detecting lead and lag		ed correctly when the voltage and current signals are both sine e frequency is between 20 Hz to 10 kHz, and the phase differe							
Measurement lower limit	Data update rate	50 msec 100 msec 200 msec 5	00 msec						
frequency	Measurement lower limit	frequency 45 Hz 25 Hz 15 Hz	5 Hz 2.5 Hz 1.5 Hz 0.5 Hz						

Specifications

Calculation Functions

S		Single-phase, three-wire	Three-phase, three-wire (2 voltage, 2 current)	Three-phase, three-wire (3 voltage, 3 current)	Three-phase, four-wire		
Voltage ΣU			(U1+U2)/2 (U1+U2			2+U3)/3	
Current ΣI			(11+	12)/2	(11+12	!+13)/3	
Active power	ΣΡ			P1+P2		P1+P2+P3	
Reactive	Normal measurement	Qi= \((S^2-P^2)	Q1+Q2 Q1+Q				
power Q, ΣQ	power Q, ΣQ Harmonic measurement			Q1+Q2+Q3			
Apparent	Normal measurement	Si=Ui × Ii	S1+S2	√3/2 (S1+S2)	√3/3 (S1+S2+S3)	(S1+S2+S3)	
power S, ΣS	Harmonic measurement	Si= √ (Pi²+Qi²)	$\sqrt{(\Sigma P^2 + \Sigma Q^2)}$				
Power factor λ , $\Sigma\lambda$	Power factor λ, Σλ	λi=Pi/Si	ΣΡ/ΣS				
Phase angle φ, Σφ	Phase angle φ, Σφ	φi=cos-1(Pi/Si)) φi=cos-1(ΣΡ/ΣS)				
Calculation pr (of calculated to measured	values relative	(S) and reactiv): ±0.0001): ±0.005° relat					

Note 1: Apparent power (S), reactive power (Q), power factor (\(\lambda\)), and phase angle (\(\rho\)) for this equipment are calculated from active power. (However, reactive power during harmonic measurement is the sum of every order.) Therefore, in the case of distorted-wave input, these values may be different from those of other instruments based on different measurement principles.

Note 2: If the phase angle display is 0 to 360, there is no accuracy specification for 0 and 180 \pm 5 degre

Other parameters (during normal measurement)
Upk, lpk (peak value), CF (crest factor), FF (form factor), |Z| (impedance), Rs and Rp (resistance), Xs and Xp (reactance), η and 1/η (efficiency), Pc (Corrected Power), F1 to F4 (user-defined functions), delta calculations (three-phase three-wire_3VSA conversion, Y-\u03b4 conversion, \u03b4 \u03b4 conversion)

Wiring settings: Settings can be divided into three groups (ΣA , ΣB , and ΣC). Each group is selected from the following: 1P2W (single-phase two-wire, one element used), 1P3W (single-phase three-wire, two elements used), 3P3W (three-phase three-wire, two elements used), 3V3A (three-phase four-wire, three elements used), 3P4W (three-phase four-wire, three elements used).

Display Functions

6.4-inch color TFT LCD

Display Pixels in full screen: 640 × 480 (The LCD unit may contain defects of approximately 0.02% in the pixels of the full screen)

Display type Numerical values: Normal measurement: 4/8/16/42/78/ALL

Harmonic measurement: 4/8/16/Single List/Dual List Waveforms:

Single/Dual/Triad/Quad Phase diagram for first-order components in har-Vector

monic measurement

Bar: Bar graph up to upper limit of analyzed orders in

harmonic measurement

Trend display: Trend display of measured/calculated values Data updating rate: Selected from 50msec/100msec/200msec/

500msec/1sec/2sec/5sec. (waveform OFF) (Add approximately 500msec when the waveform data acquisition is ON.) The display update cycle is maximum 100msec when the waveform data acquisition is OFF and only in the Numeric display(16

or less value). It is 200msec or more at the other data update rates.

Approximatery 11MB
Up to data updating rate × 2 (with waveform acqui-

Internal memory

Response type:

Display scaling function:

PT ratio, CT ratio, and power scaling factor can be scaled.

Averaging functions Normal measurement

Methods:

Exponential average or simple moving average Attenuation constant of 2, 4, 8, 16, 32, or 64 Exponential average: Moving average: Number of averages (N) set to 8, 16, 32, 64, 128,

Harmonic measurement

When using an exponential average, the attenuation constant is 5.625 if the frequency of the PLL synchronization source is 55 Hz or greater but less than 75 Hz; otherwise, the attenuation constant is 4.6875. (When data length = 8192)

Display resolution U,I,P: During rated range-value input, the decimal place and the counting unit are set so that the display does not exceed a count value of 60,000. ΣU , Σ I, Σ P: The decimal place and the counting unit are

the same as for the maximum range-value of the calculated element.

Frequency Measurement Functions

Select three of the following: U1,I1, U2,I2, U3,I3, U4,I4, U5,I5, U6,I6 Measurement input

Measurement method: Frequency range

Reciprocal method Frequency range $45 \text{ Hz} \le f \le 1 \text{ MHz}$ $25 \text{ Hz} \le f \le 1 \text{ MHz}$ Data updating rate 50 msec 100 msec 200 msec $15 \text{ Hz} \le \text{f} \le 500 \text{ kHz}$ $5 \text{ Hz} \le f \le 200 \text{ kHz}$ $2.5 \text{ Hz} \le f \le 100 \text{ kHz}$ 500 msec 1 sec $1.5 \text{ Hz} \le \text{f} \le 50 \text{ kHz}$ 2 sec 5 sec $0.5 \text{ Hz} \leq f \leq 20 \text{ kHz}$

±(0.05% of reading + 1 digit) Accuracy

Note: Within accuracy-assured range $\pm (0.05\% \text{ of rdg})$ + 1 digit) for the measurement function parameters. Input signal level is greater than or equal to 0.6 V (voltage input), 25 mV (external input), 5 mA (5-A input element), or 150 mA (50-A input element) and the signal is greater than or equal to 30% (from 0.5 Hz to less than 440 Hz, with zero crossing filter ON), 10% (from 440 Hz to 500 kHz), or 30% (from more than 500 kHz to 1 MHz) of the measurement range.

Integration Functions

The integrating functions do not work during waveform acquisition or in har-

monic analysis mode ON. Measured parameters:

Mode

Power (Wp), positive-only power (+Wp), negative-only power (-Wp), current (q), positive-only current

(+q), negative-only current (-q) (For current integration, select only one of the following for each element: rms, mean, DC, AC.), time (Time) Standard integration mode (timer mode)

Continuous integration mode (repeat mode) Manual integration mode

Integration can be started/stopped element by ele-Individual element integration

ment using GP-IB or serial (RS-232) communications. Timer Integration can be stopped automatically accord-

ing to a timer setting.
Setting range: 0000h00min00sec to

10000h00min00sec
If the integration value exceeds ±999999 Count overflow

MWh(MAh), the elapsed time is saved and the op-

eration is stopped.

±(unit accuracy + 0.05% of rdg) Accuracy

Timer accuracy

Harmonic Measurement Functions

Measurements Method

Select one of the following: ΣA , ΣB , ΣC PLL synchronization or external sampling clock Measurement frequency range PLL synchronization: Synchronization source fun-

damental frequency of 10 Hz to 1 kHz External sampling clock: Fundamental wave of 0.5 Hz to 100 Hz (Input 2048 times the fundamental

frequency. The waveform is a square wave with a duty cycle of 50% at the TTL level.)

For each order: U, I, P, S, Q, λ , ϕ (U-I), ϕ U, ϕ I (phase Analyzed parameters difference of harmonic component relative to fun-

damental wave), |Z|, Rs, Rp, Xs, Xp Total: U, I, P, S, Q, λ , ϕ Σ calculation of fundamental wave and total: U, I, P,

S, Q, and λ

For each order: Harmonic content of U, I, and P

THD of U, I, and P

UTHF (voltage telephone harmonic factor), ITHF

(current telephone harmonic factor), UTIF (voltage telephone influence factor), ITIF (current telephone influence factor), HVF (harmonic voltage factor),

HIF (harmonic current factor) 8192, 4096, or 2048

FFT data length FFT processed word length 32 bits

Window function Rectangular Set by line filter (fc = 5.5 kHz) Anti-aliasing filter

PLL synchronization

Fundamental	Sampling	Window wi	Window width relative to FFT data length				
frequency (Hz)	frequency	(number of	(number of fundamental wave cycles)				
		8192	4096	2048	·		
10 ≤ f< 20	f × 2048	4	2	1	100		
20 ≤ f< 40	f × 1024	8	4	2	100		
40 ≤ f< 75	f × 512	16	8	4	100		
75 ≤ f< 150	f × 256	32	16	8	100		
150 ≤ f< 440	f × 128	64	32	16	50		
440 ≤ f ≤1000	f × 64	128	64	32	25		

External sampling clock

Fundamental	Sampling	Window wid	dth relative t	o FFT data length	Maximum
frequency (Hz)	frequency	(number of	fundamenta	l wave cycles)	analyzed orders
		8192	4096	2048	•
0.5 ≤ f≤ 100	f × 2048	4	2	1	100

However, it is $1 \le f \le 100$ when the FFT data length is 8192

Accuracy (Line filter 5.5 kHz ON)

(
	Voltage/Current	Power
0.5 Hz ≤ f < 10 Hz	0.4% of rdg + 0.2% of rng	0.7% of rdg + 0.3% of rng
10 Hz ≤ f < 45 Hz	0.4% of rdg + 0.1% of rng	0.6% of rdg + 0.2% of rng
45 Hz ≤ f ≤ 66 Hz	0.3% of rdg + 0.05% of rng	0.4% of rdg + 0.05% of rng
66 Hz < f ≤ 1 kHz	1% of rdg + 0.1% of rng	1.5% of rdg + 0.1% of rng
1 kHz < f ≤ 2.5 kHz	2% of rdg + 0.1% of rng	

During nth-order component input, add $\{(n/(m+1))/(m+1)\}$ 50}% of the nth-order reading to (n-m)th order and (n+m)th order.

Line filter OFF

For normal measurement accuracy, during nth-order component input, add {(n/(m+1))/50}% of the nth-order reading to (n-m)th order and (n+m)th order. Add (n/500)% of the nth-order reading to the nth-order component.

Motor Evaluation Functions (optional)

The motor evaluation functions do not work in harmonic measurement mode. Calculated parameters Torque, rpms, mechanical power, synchronization

Measured parameters

Analog input for calculating torque and rpms

Input resistance Approximately 1MΩ Accuracy $\pm (0.1\% \text{ of rdg} + 0.2\% \text{ of rng})$ Input range-values 1/2/5/10/20 V

speed, slip, motor efficiency, total efficiency

Effective input range Up to ±110% of range-value Temperature coefficient ±0.03% of rng/°C

Pulse input for rpm calculation

Input resistance Approximately 1MΩ ±0.05% of rdg + 1 mHz + 1 digit Accuracy ±5 Vpk

Input range Effective amplitude 1 Vp-p or higher

50% duty ratio rectangular wave Input waveform Frequency measurement range 2 Hz to 200 kHz

D/A Output (optional)

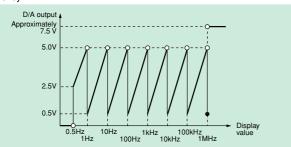
Number of outputs Accuracy

30 parameters (each channel can be set separately) ±(display accuracy +0.2% of F.S.)

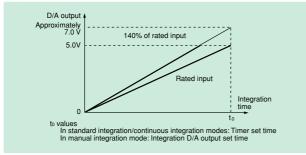
Maximum output current

±0.1 mA Temperature coefficient ±0.05% of F.S./°C

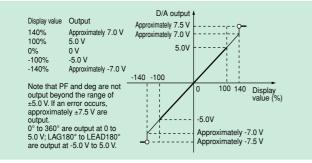
Output format Frequency



Integrated values



Other parameters



Waveform Display Functions

Triggers

Mode Auto/Normal Edge Type

U1, I1, U2, I2, U3, I3, U4, I4, U5, I5, U6, I6, external Source

Rising/falling/both Slope Position 0% (fixed)

Sample rate Approximately 200 kHz

Time/Div 0.5 msec to 500 msec (not to exceed 1/10 of dis-

play updating period) 0.1 to 100 times

Vertical zoom Data memory size

1 kW (Peak to peek compression data) The frequency that allows displaying of waveforms is up to approximately 10 kHz.

Built-in Printer (optional)

Printing method Thermal line-dot Dot density 8 dots/mm Paper width 80 mm Effective recording width 72 mm

Recorded information Screenshots, list of measured values, harmonic bar

graph printouts, settings

Ethernet (optional)

Ethernet (10BASE-T) Transmission method

Supported services FTP server, FTP client, LPR (network printing),

SMTP (automatic mail transfer), DHCP, DNS

Electrical and mechanical specifications As per IFFF802 3 Connector RJ-45 connector

Built-in Hard Drive (optional)

10 GB (2 GB×5) IBM format Capacity

SCSI ID 4 (fixed)

External I/O

EXT CLK (Sync source during normal measurement, PLL

source or external sampling clock during harmonic

analysis) BNC

Connector Input voltage TTL level

EXT MEAS.START

(external measurement start I/O), EXT MEAS.STOP (external measurement stop I/O)

Connector BNC

Connect the EXT MEAS.START terminal of the Synchronized measurement

master unit with the EXT MEAS.START terminal of the slave unit, and connect the EXT MEAS.STOP terminal of the master unit with the EXT

MEAS.STOP terminal of the slave unit.

Internal floppy drive

3.5-inch Size Format 1.44 MB

Communication functions

GP-IB or serial (RS-232) provided as a standard function.

GP-IB interface

Electrical and mechanical specifications As per IEEE St'd 488-1978

Functional specifications

SH1, AH1, T6, L4, SR1, RL1, PR0, DC1, DT0, C0

Protocol: As per IEEE St'd 488.2 1992

Serial (RS-232) interface

Connector D-Sub 9-pin

EIA-574 (specifications for 9-pin interface in EIA-232 (RS-232) standard) Specification

1200, 2400, 4800, 9600, 19200 bps

Transfer rate VGA video output

Connector type D-Sub 15-pin (VGA VIDEO OUT)

Output format VGA-compatible

SCSI interface (optional)

SCSI(Small Computer System Interface) Specification

ANSI X3.131-1986

D-sub half-pitch 50-pin (pin type)

Connector Connector pin assignments Unbalanced (single-end), internal terminator

Specifications

General Specifications

Safety standard*1 Complying standard EN61010-1

Overvoltage category (Installation category) II*2 Pollution degree 2 *3

Emission *1 Complying standard EN61326 Class A

EN61000-3-2 EN61000-3-3 AS/NZS 2064 Class A

Immunity *1 Complying standard EN61326 Annex A*4

Warmup time Approximately 1 hour

Operating temperature and humidity ranges

5 to 40°C, 20 to 80%RH when not using the printer, 5 to 40°C, 35 to 80%RH when using the printer.(no

condensation)

Storage temperature -25 to 60°C (no condensation) Operating elevation 2000 meters or less Insulating resistance $50~\text{M}\Omega$ or higher at 500~VDC

Between casing and power plug Between voltage input terminals (ganged) and casing Between current input terminals (ganged) and casing Between voltage input terminals (ganged) and current

input terminals (ganged)

Between input terminals of each element.

Between torque/speed input terminals (ganged) and casing Between torque input terminals (ganged) and

speed input terminals (ganged)

Between input terminals of each element 1500 VAC for one minute at 50/60 Hz

Between casing and power plug 3700 VAC for one minute at 50/60 Hz

Between voltage input terminals (ganged) and casing Between current input terminals (ganged) and casing Between voltage input terminals (ganged) and cur-

rent input terminals (ganged) Between input terminals of each element.

Rated supply voltage 100 to 120 VAC, 200 to 240 VAC (switches automati-

cally)

Allowed supply voltage fluctuation range 90 to 132 VAC, 180 to 264 VAC

50/60 Hz Rated supply frequency

fluctuation range Allowed supply frequency 48 to 63 Hz

Withstand voltage

Maximum 150 VA (when using internal printer) Approximately 426 mm (W) × 177 mm (H) × 400 Consumed power External dimensions

mm (D) (excluding protrusions)

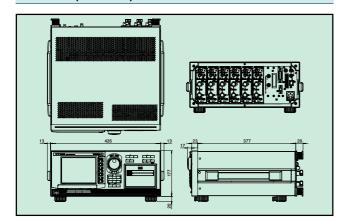
Weight Approximately 15 kg (main unit with 6 input ele-

ments and options installed)

- *1 Emission, immunity and safety standards apply to products having the CE Mark. For all other products, please contact your nearest YOKOGAWA representative as listed on the back cover of this manual.
- *2 Overvoltage Categories define transient overvoltage levels, including impulse withstand voltage levels. Overvoltage Category II: Applies to equipment supplied with electricity from fixed installa-tions like a distribution board.
- ¹³ Pollution Degree: Applies to closed atmospheres (with no, or only dry, non-conductive pollution).
 Pollution Degree 2: Applies to normal indoor atmospheres (with only non-conductive pollution).

 4 Annex A (normative): Immunity test requirements for equipment intended for use in industrial locations.

Exterior (WT1600)



The TCP/IP software used in this product and the documentation for that TCP/IP software are based in part on BSD Networking Software, Release 1 licensed from The Regents of the University of California

Model and Suffix Codes

Model	Su	Suffix codes Description								
760101		WT1600 digital power meter main un					in unit			
			Element Number			er				
			1	2	3	4	5	6		
Element types and quantities	-01		50							
The numbers in the "Descrip-	-02	2	50	50						
tion" column have the following	-03	3	50	50	50					
meanings. 50: 50 A input element	-04	ļ	50	50	50	50				
5: 5 A input element	-05	5	50	50	50	50	50			
Blank: No element	-06	3	50	50	50	50	50	50		
Elements are inserted in the or-	-10)	5							
der shown starting on the left	-11		5	50						
side on the back.	-12)	5	50	50					
	-13	3	5	50	50	50				
	-14		5	50	50	50	50			
	-15	5	5	50	50	50	50	50		
	-20)	5	5						
	-21		5	5	50					
	-22	2	5	5	50	50				
	-23	3	5	5	50	50	50			
	-24	ļ.	5	5	50	50	50	50		
	-30)	5	5	5					
	-31	-31		5	5	50				
	-32	2	5	5	5	50	50			
	-33		5	5	5	50	50	50		
	-40		5	5	5	5				
	-41		5	5	5	5	50			
	-42		5	5	5	5	50	50		
	-50		5	5	5	5	5			
	-51		5	5	5	5	5	50		
	-60		5	5	5	5	5	5		
Communication functions	-C			GP-IB						
	-C		Serial (RS-232)							
Power cord		-D	UL/CSA Standard							
		-F		VDE S						
Option		-R		SAA S						
		-Q		BS Sta						
		/B5		Interna						
specifications		/C7		SCSIi						
		/C10	Ethernet, HDD, SCSI							
		/DA	30-channel DA output Motor evaluation function							
		/MTR		Motor	evalua	tion fur	nction			

^{*} The WT1600 unit cannot be purchased without any elements. Select an element type (5 A or 50 A) and

quantity.

Note: In order to add elements and options after the WT1600 has been delivered, the WT1600 must be modified at the factory. Be aware of this in making your product selections. For further details, see Yokogawa's home page or contact our sales office.

Accessories (sold separately)

Product	Model/ part number	Description	Order quantity
Rack mounting kit	751535-E4	For EIA	1
Rack mounting kit	751535-J4	For JIS	1
BNC cable	366924	BNC cable BNC-BNC (1 m)	1
BNC cable	366925	BNC cable BNC-BNC (2 m)	1
BNC cable	366926	BNC-alligator cable	1
Adapter	366971	9-pin* to 25-pin** adapter	1
Measurement leads	758917	Red and black, 75 cm; 2 leads in a set	1
Fork terminal adapter set	758921	Converts fork terminal (4 mm) into banana terminal; red and black (one each)	1
Alligator clips adapter (rated voltage: 300 V)	758922	Banana to alligator conversion; 2 in a set	1
Alligator clips adapter (rated voltage: 1000 V)	758929	Banana to alligator conversion; 2 in a set	1
Fuses	A1354EF	250 V, 6.3 Arms, time lag 100 V/200 V	2
External sensor cable	B9284LK	For external input; 50 cm	1
Roll paper for printer	B9316FX	Thermal paper; 10 meters (1 roll)	10

NOTICE

- Before operating the product, read the instruction manual thoroughly for proper and safe operation.
- If this product is for use with a system requiring safeguards that directly involve personnel safety, please contact the Yokogawa sales offices.

^{*:} EIA-574 standard **: EIA-232 standard (RS-232)