

Clamp-on Testers

The 300, 310, 2343 and 2345 Series of Clamp-on Testers

You can choose from a wide variety of models:

- 300 series of **AC** and **AC/DC** operated miniature models and battery-driven miniature models for **leakage** current measurement
- **True-RMS**/mean value models in the 310 series for **leakage** current measurement
- **AC-** and **AC/DC-**operated multifunction models in the 2343 series
- Low-cost, **true-RMS**/mean value models in the 2345 series for **AC** current measurement



Certification has been acquired by both the head office and the Moroyama Factory

Yokogawa M&C Corporation

300 Series of Compact Clamp-on Testers



NEW

- Compact
- AC A
- 30/300A
- Ø27



NEW

- Compact
- AC A
20Hz to 1kHz
- DC A
- 30/300A
- Ø27

300₁₀

- Low cost, simple operation
- Bar-graph for monitoring changes in current
- Clamp strength greatly improved by solid structure
- Approved for conformity to safety standards EN 61010-1 and EN 61010-2-032 (CAT III 300 V, pollution degree 2)

300₂₀

- Peak function for measuring wave heights of 10 ms or more
- One-touch zero-adjuster function
- Thin jaws convenient for narrow places
- Approved for conformity to safety standards EN 61010-1 and EN 61010-2-032 (CAT III 300 V, pollution degree 2)

■ Specifications

At 23°C±5°C, 80% RH

*Accuracy: ±(% rdg + dgt) = ±(% readout + value of least significant digit)

Model		300 10	300 20
DC current		—	30/300A
Accuracy*		—	1.0 + 5 (30 A range) 1.5 + 3 (300 A range, 0 - 200 A) 2.5 + 3 (300 A range, 200 - 300 A)
AC current		30/300A	30/300A
Frequency characteristics		50/60Hz	20Hz~1kHz
Accuracy*	50/60Hz	1.2+5	1.0 + 5 (30 A range) 1.5 + 5 (300 A range, 0 - 200 A) 2.5 + 5 (300 A range, 200 - 300 A)
	20Hz~1kHz	—	2.0 + 5 (30 A range) 2.5 + 5 (300 A range, 0 - 200 A) 3.5 + 5 (300 A range, 200 - 300 A)

■ General Specifications for 300 Series

Model		300 10	300 20
Method of detection		Mean value	
Display		LCD (Digital display: 3200 counts) (Bar-graph display: 32 segments)	LCD (Digital display: 3200 counts)
Measurement cycle		Digital display: 2 times/second Bar-graph display: 12 times/second	2 times/second (Digital display)
Range switching		Auto-range	
Ambient temperature and humidity		0 - 50°C, 80% RH or less (no condensation)	
Temperature coefficient		±0.05% of range/°C or less (within the ranges of 0 - 18°C, 28 - 50°C)	0.1% of range/°C or less (within the ranges of 0 - 18°C, 28 - 50°C)
Influence of external magnetic field		—	
Influence of conductor position		±0.6% or less	±0.7% or less
Safety standard		Approved for conformity to EN 61010-1, EN 61010-2-032	
Circuit voltage		300 Vrms or less	
Withstanding voltage		3.7 kV AC for one minute	
Power supply		One CR2032 (coin-shaped) 3 V battery	
Battery life		Approx. 100 hours (when continuously used)	Approx. 20 hours (when continuously used)
Auto power-off		Approx. 10 minutes	
Diameter of measurable conductor		27 mm at maximum	
Dimensions		Approx. 53(W) × 156(H) × 25(D) excluding protrusions	Approx. 43(W) × 152(H) × 25(D) excluding protrusions
Weight		Approx. 130 g	Approx. 110 g
Accessories		Instruction manual, battery, soft case	

300 Series of Compact Clamp-on Testers



- Compact
- AC A
50/60Hz
- 30mA-300A
- ∅40



- Compact
- AC A
50/60Hz
- 3mA-60A
- ∅40

300₃₀

- Can measure a broad range of currents from leakage currents (at a resolution of 0.01 mA) to load currents of up to 300 A.
- Maximum influence (on the current value of an adjacent cable) from an external magnetic field is 0.01%.

300₃₁

- Can measure leakage currents of 1 mA, which is useful for checking the insulation of low-voltage circuits and electrical components.
- Can measure a broad range of currents from leakage currents (at a resolution of 0.001 mA) to load currents up to 60 A.
- Typical influence (on the current value of an adjacent cable) from an external magnetic field is 0.0005%.

Common features of 300₃₀/300₃₁

- Durability of clamp: More than 50,000 opening/closing events
- Twice the torsional strength of Yokogawa M&C's earlier model clamps
- The clamp lever is lengthened by 30%, enabling smooth opening/closing of the clamp even for thick cables of 40mm in diameter.
- Approved for conformity to safety standards EN 61010-1 and EN 61010-2-032 (CAT III 300V, pollution degree 2)

Specifications

23°C±5°C, 80% RH *Accuracy: ±(% rdg + dgt) = ±(% readout + value of least significant digit)

Model		300 30	300 31
AC current		30/300mA, 30/300A	3/30mA, 30/60A
Frequency characteristics		50/60Hz	50/60Hz
Accuracy*	50/60Hz	1.0 + 5 (30/300mA)	1.0 + 5 (0-20mA)
		1.2 + 5 (0-200A)	3.0 + 5 (20-30mA)
		5.0 + 5 (200-300A)	1.0 + 5 (0-50mA)
			5.0 + 5 (50-60A)

General Specifications for 310 Series

Model		300 30	300 31
Method of detection		Mean Value	
Display		LCD (Digital display: 3200 counts) (Bar-graph display: 32 segments)	
Measurement cycle		2 times/second (Digital display), 12 times/second (Bar-graph display)	
Range switching		Auto-range	
Ambient temperature and humidity		0 - 50°C, 80% RH or less (no condensation)	
Temperature coefficient		0.05% of range/°C or less (within the ranges of 0-18°C and 28-50°C for measurement of 0-200 A)	0.05% of range/°C or less (with n the ranges of 0-18°C and 28-50°C for measurement of 0-50 A)
Influence of external magnetic field		0.01% or less (on current value of adjacent cable)	0.0005% typical*1 (on current value of adjacent cable)
Influence of conductor position		Within accuracy	
Circuit voltage		Approved for conformity to EN 61010-1, EN 61010-2-032	
Safety standard		300 Vrms or less	
Withstanding voltage		3.7kV AC for one minute	
Power supply		One CR2032 (Coin-shaped) 3 V battery	
Battery life		Approx. 120hours (when continuously used)	Approx. 90 hours (when continuously used)
Auto power-off		Approx. 10 minutes	
Diameter of measurable conductor		40 mm at maximum	
Dimensions		Approx. 70(W) X 176(H) X 25(D) excluding protrusions	
Weight		Approx. 180 g	Approx. 200 g
Accessories		Instruction manual, battery, soft case	

*1: This is determined from averaging the amount of influence occurring elsewhere in the jaw.

310 Series of Leakage Clamp-on Testers



- AC A
40Hz to 1kHz
- AC leakage
- 30mA - 300A
- RMS
- Recorder output
- ∅40



- AC A
40Hz to 1kHz
- AC leakage
- 30mA - 300A
- AC V
- ∅40

310₃₀

310₃₁

- Maximum value hold and moving average display functions
- Optional AC adapter allows long-term measurement
- Low cost type

Common features of 310₃₀ and 310₃₁

- Filtering function for measuring currents of fundamental frequency
- Auto-hold function holds max./min./average/final values in 10 seconds of measured current data
- Approved for conformity to safety standards EN 61010-1 and EN 61010-2-032 (CAT III 600 V, pollution degree 2)

Specifications

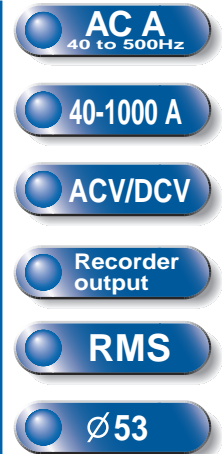
At 23°C±5°C, 80% RH *Accuracy: ±(% rdg + dgt) = ±(% readout + value of least significant digit)

Model		310 30	310 31
AC current		30/300mA, 3/30/300A	
Frequency characteristics		40 Hz - 1 kHz	
Accuracy*	Filter ON	1.0 + 5 (0 - 100 A, 40 - 70 Hz) 3.0 + 5 (100 - 200 A, 50/60 Hz) 5.0 + 5 (200 - 300 A, 50/60 Hz)	1.0 + 5 (0 - 100 A, 40 - 70 Hz) 4.0 + 5 (100 - 200 A, 50/60 Hz) 8.0 + 5 (200 - 300 A, 50/60 Hz)
	Filter OFF	1.0 + 5 (0 - 100 A, 40 - 70 Hz) 2.0 + 5 (0 - 100 A, 70 Hz - 1 kHz) 3.0 + 5 (100 - 200 A, 50/60 Hz) 5.0 + 5 (200 - 300 A, 50/60 Hz)	1.0 + 5 (0 - 100 A, 40 - 70 Hz) 2.0 + 5 (0 - 100 A, 70 Hz - 1 kHz) — —
Crest factor		< 3 (0 - 100 A) < 2.5 (100 - 200 A) < 1.5 (200 - 300 A)	—
Accuracy of AC voltage*		—	1.0 + 5 (600 V range)
Accuracy of measured frequency*		0.01 + 1 (10.00 - 999.9 Hz)	—
Recorder output	Output voltage	0 - 300 mV DC (for each range)	
	Accuracy	Add±(2% + 1 mV) to accuracy of measured AC current.	
	Load resistance	1MΩ or more	

General Specifications for 310 Series

Model	310 30	310 31
Method of detection	True RMS	Mean value
Display	LCD (Digital display: 3200 counts) (Bar-graph display: 32 segments)	
Measurement cycle	Digital display: 2 times/second Bar-graph display: 10 times/second	
Range switching	Auto-range/Manual-range	
Ambient temperature and humidity	0 - 50°C, 80% RH or less (no condensation)	
Temperature coefficient	±0.05% of range/°C or less (Within the ranges of 0 - 18 °C, 28 - 50°C ; at 0 - 100 A measurement)	
Influence of external magnetic field	0.005% or less (against current value of adjacent electric cable)	
Influence of conductor position	Within accuracy (At center of sensor; no rating for 100 A or more)	
Safety standard	Approved for conformity to EN 61010-1, EN 61010-2-032	
Circuit voltage	600 Vrms or less	
Withstanding voltage	5.55 kV AC for one minute	
Power supply	Two R 03 (AAA) 1.5 V batteries, or AC adapter (option, for 310 30 only)	
Battery life	Approx. 70 hours (when alkaline batteries are used)	Approx. 150 hours (when alkaline batteries are used)
Auto power-off	Approx. 10 minutes	
Diameter of measurable conductor	40 mm at maximum	
Dimensions	Approx. 76(W) × 204(H) × 31(D) excluding protrusions	
Weight	Approx. 350 g	
Accessories	Instruction manual, batteries, hard carrying case, recorder output plug (310 30), test lead (310 31)	

2343 Series of Clamp-on Testers



2343₀₁

- Resistance measurement and continuity check functions
- Low power design and auto power-off for longer battery life
- Approved for conformity to safety standards BS EN 61010-1, BS EN 61010-2-031, BS EN 61010-2-032 (CAT II 600 V, pollution degree 2)

2343₀₂

- Resistance, temperature, frequency measurement and continuity check functions
- Maximum value hold and moving average display functions
- Conforms to safety standards IEC 61010-1, IEC 61010-2-031, IEC 61010-2-032 (CAT II 600 V, pollution degree 2)

■ Specifications

At 23°C±5°C, 80% RH

*Accuracy: ±(% rdg + dgt) = ±(% readout + value of least significant digit)

Model		2343 01	2343 02
AC current		300/1000 A	40/400/1000 A
Frequency characteristics		40 - 500 Hz	40 - 500 Hz
Accuracy*		1.0 + 5	1.0 + 5
Crest factor		—	< 2.3
DC voltage	Range	3/30/300/600 V	40/400/600 V
	Accuracy*	1.0 + 3	1.0 + 3
AC voltage	Range	30/300/600 V	40/400/600 V
	Accuracy*	1.0 + 3	1.0 + 3
Resistance	Range	300Ω/3kΩ	400Ω/4kΩ
	Accuracy*	1.5 + 3	1.0 + 3
Accuracy of measured frequency*		—	0.01 + 1 (10.00 - 999.9 Hz)
Accuracy of measured temperature		—	±1.0°C (0 - 70°C) ±2.0°C (-30 - 0°C, 70 - 150°C)
Recorder output	Output voltage	—	0 - 400 mV DC (40/400 A range) 0 - 100 mV DC (1000 A range)
	Accuracy	—	±(1% + 0.5 mV)
	Load resistance	—	1MΩ or more

■ General Specifications for 2343 Series

Model	2343 01	2343 02
Method of detection	Mean value	True RMS
Display	LCD (Digital display: 3200 counts) (Bar-graph display: 32 segments)	LCD (Digital display: 4000 counts) (Bar-graph display: 40 segments)
Measurement cycle	Digital display: 2 times/second Bar-graph display: 12 times/second	Digital display: 2.3 times/second Bar-graph display: 23 times/second
Range switching	Auto-range/Manual-range	
Ambient temperature and humidity	0 - 50°C, 80% RH or less (no condensation)	
Temperature coefficient	Accuracy×0.1/°C or less (Within the ranges of 0 - 18°C, 28 - 50°C)	
Influence of external magnetic field	—	—
Influence of conductor position	—	—
Safety standard	Approved for conformity to BS EN 61010-1, BS EN 61010-2-031, BS EN 61010-2-032	Conforms to IEC 61010-1, IEC 61010-2-031, IEC 61010-2-032
Circuit voltage	600 Vrms or less	
Withstanding voltage	3.7 kV AC for one minute	
Power supply	Two R 6P (AA) 1.5 V batteries	One 6F22 (S-006P) 9 V battery
Battery life	Approx. 1000 hours (when alkaline batteries are used)	Approx. 170 hours (when alkaline battery is used)
Auto power-off	Approx. 10 minutes	
Diameter of measurable conductor	53 mm at maximum, or 75 × 18 mm busbar	
Dimensions	Approx. 96(W) × 272(H) × 43(D)	
Weight	Approx. 430 g	
Accessories	Instruction manual, batteries, hard carrying case, test lead	

2343 Series of Clamp-on Testers



2343 03

- AC A
40Hz to 500Hz
- 40 -1000 A
- Recorder output
- ACV/DCV
- Ø53



2343 04



- DC A
- AC A
40Hz to 500Hz
- 400/1000 A
- RMS
- ACV/DCV
- Recorder output
- Ø55

2343₀₃

- Resistance, temperature, frequency measurement and continuity check functions
- Maximum value hold and moving average display functions
- Conforms to safety standards IEC 61010-1, IEC 61010-2-031, IEC 61010-2-032 (CAT II 600 V, pollution degree 2)

2343₀₄

- Peak function that can measure wave heights of currents (5 ms or more) upon measurement of DC current
- Resistance, temperature, frequency measurement and continuity check functions
- Maximum value hold and moving average display functions
- Approved for conformity to safety standards BS EN 61010-1, BS EN 61010-2-031, BS EN 61010-2-032 (CAT II 600 V, pollution degree 2)

■ Specifications

At 23°C±5°C, 80% RH

*Accuracy: ±(% rdg + dgt) = ±(% readout + value of least significant digit)

Model	2343 03	2343 04
DC current	—	400/1000 A
Accuracy*	—	1.3 + 3
AC current	40/400/1000 A	400/1000 A
Frequency characteristics	40 - 500 Hz	40 - 500 Hz
Accuracy*	1.0 + 5	1.3 + 3
DC voltage	Range	40/400/600 V
	Accuracy*	1.0 + 3
AC voltage	Range	40/400/600 V
	Accuracy*	1.0 + 3
Resistance	Range	400Ω/4kΩ
	Accuracy*	1.0 + 3
Accuracy of measured frequency*	0.01 + 1 (10.00 - 999.9 Hz)	
Accuracy of measured temperature	±1.0°C(0~70°C) ±2.0°C(-30~0°C, 70~150°C)	
Recorder output	Output voltage	0 - 400 mV DC (40/400 A range) 0 - 100 mV DC (1000 A range)
	Accuracy	± (2% + 0.5 mV)
	Load resistance	1MΩ or more

■ General Specifications for 2343 Series

Model	2343 03	2343 04
Method of detection	Mean value	True RMS
Display	LCD(Digital display: 4000 counts) (Bar-graph display: 40 segments)	
Measurement cycle	Digital display: 2.3 times/second	Bar-graph display: 23 times/second
Range switching	Auto-range/Manual-range	
Ambient temperature and humidity	0 - 50°C, 80% RH or less (no condensation)	
Temperature coefficient	Accuracy × 0.1/°C or less (Within the ranges of 0 - 18°C, 28 - 50°C)	
Influence of external magnetic field	—	—
Influence of conductor position	—	± 0.5% or less
Safety standard	Conforms to IEC 61010-1, IEC 61010-2-031, IEC 61010-2-032	Approved for conformity to BS EN 61010-1, BS EN 61010-2-031, BS EN 61010-2-032
Circuit voltage	600 Vrms or less	
Withstanding voltage	3.7 kV AC for one minute	
Power supply	One 6F22 (S-006P) 9 V battery	
Battery life	Approx. 210 hours(when alkaline battery is used)	Approx. 65 hours (when alkaline battery is used)
Auto power-off	Approx. 10 minutes	
Diameter of measurable conductor	53 mm at maximum or 75 × 18 mm busbar	55 mm at maximum or 65 × 18 mm busbar
Dimensions	Approx. 96(W) × 272(H) × 43(D)	Approx. 96(W) × 261(H) × 43(D)
Weight	Approx. 430 g	Approx. 450 g
Accessories	Instruction manual, battery, hard carrying case, test lead	

2345 Series of Clamp-on Testers



2345 01

- AC A
40 to 500Hz
- 30/300A
- AC V
- Waveform
monitor output
- ∅33



2345 03

- AC A
20Hz to 20kHz
- 30/300A
- RMS
- Waveform
monitor output
- Recorder
output
- ∅33

2345₀₁

- Resistance measurement and continuity check functions
- Low power design and auto power-off for longer battery life
- Conforms to safety standards IEC 61010-1, IEC 61010-2-031, IEC 61010-2-032 (CAT II 600 V, pollution degree 2)

2345₀₃

- Excellent frequency characteristics (20Hz - 20kHz)
- Built-in 50/60 Hz filter function
- Approved for conformity to safety standards BS EN 61010-1, BS EN 61010-2-032 (CAT III 300 V, pollution degree 2)

■ Specifications

At 23°C±5°C, 80% RH

*Accuracy: ±(% rdg + dgt) = ±(% readout + value of least significant digit)

Model	2345 01	2345 03
AC current	30/300A	30/300A
Frequency characteristics	40 - 500 Hz	20 Hz - 20 kHz
Accuracy*	1.2 + 5	1.0 + 4 (50/60 Hz range, 45 - 65 Hz) 1.0 + 4 (WIDE range, 20 Hz - 2 kHz) 2.0 + 8 (WIDE range, 2 - 10 kHz) 5.0 + 12 (WIDE range, 10 - 20 kHz)
AC voltage	Range	300/600 V
	Accuracy*	1.0 + 3
Resistance	Range	300Ω/3kΩ
	Accuracy*	1.5 + 3
Waveform monitor output	Output voltage	0 - 1500 mVrms (5 mV/A)
	Accuracy	±5% (50/60 Hz) ±10% (40 - 500 Hz except 50/60Hz)
	Load resistance	100 kΩ or more, 100 pF or less
Recorder output	Output voltage	0 - 300 mV DC (30/300 A range)
	Accuracy	±(1.0% + 0.4 mV) (20 Hz - 2 kHz) ±(2.0% + 0.8 mV) (2 - 10 kHz) ±(5.0% + 1.2 mV) (10 - 20 kHz)
	Load resistance	1MΩ or more

■ General Specifications for 2345 Series

Model	2345 01	2345 03
Method of detection	Mean value	True RMS
Display	LCD (Digital display: 3200 counts; Bar-graph display: 32 segments)	
Measurement cycle	Digital display: 2 times/second Bar-graph display: 12 times/second	
Range switching	Auto-range	Auto-range/Manual-range
Ambient temperature and humidity	0 - 50°C, 80% RH or less (no condensation)	
Temperature coefficient	Accuracy × 0.1%/°C or less (Within the ranges of 0 - 18°C, 28 - 50°C)	
Influence of external magnetic field	1 A or less at 400 A/m	0.2 A or less at 400 A/m
Influence of conductor position	±1% or less	—
Safety standard	Conforms to IEC 61010-1, IEC 61010-2-031, IEC 61010-2-032	Approved for conformity to BS EN 61010-1, BS EN 61010-2-032
Circuit voltage	600 Vrms or less	
Withstanding voltage	3.7 kV AC for one minute	
Power supply	Two R 03 (AAA) 1.5 V batteries	
Battery life	Approx. 700 hours (when alkaline batteries are used)	Approx. 100 hours (when alkaline batteries are used)
Auto power-off	Approx. 10 minutes	
Diameter of measurable conductor	33 mm at maximum	
Dimensions	Approx. 73(W) × 190(H) × 34(D)	
Weight	Approx. 250 g	Approx. 280 g
Accessories	Instruction manual, batteries, hard carrying case, test lead (2345 01)	

Selection Guide

■ For AC Current

Model	NEW 300 10	2343 01	2343 02	2343 03	2345 01	2345 03
Diameter of measurable conductor	∅27mm		∅53mm		∅33mm	
Display	3200	3200	4000		3200	
AC current	Range	30/300A	300/1000A	40/400/1000A		30/300A
	Resolution	0.01A	0.1A	0.01A		0.01A
	Frequency characteristics	50/60Hz		40 ~ 500Hz		40 ~ 500Hz
	Method of detection	Mean value	Mean value	True RMS	Mean value	Mean value
Other measurement functions	AC voltage	—	○	○	○	—
	DC voltage	—	○	○	○	—
	Continuity check	—	○	○	○	—
	Frequency	—	—	○	○	—
	Temperature	—	—	○	○	—
	Recorder output	—	—	○	○	○
	Waveform monitor output	—	—	—	—	○

■ For AC/DC Currents

Model	NEW 300 20	2343 04
Diameter of measurable conductor	∅27mm	∅55mm
Display	3200	4000
DC current	Range	30/300A
	Resolution	0.01A
AC current	Range	30/300A
	Resolution	0.01A
	Frequency characteristics	20Hz - 1kHz
	Method of detection	Mean value
Other measurement functions	AC voltage	—
	DC voltage	—
	Continuity check	—
	Frequency	—
	Temperature	—
	Recorder output	—
	Waveform monitor output	—

■ For Leakage Current

Model	NEW 300 30	NEW 300 31	NEW 310 30	NEW 310 31
Diameter of measurable conductor	∅40mm	∅40mm	∅40mm	∅40mm
Display	3200	3200	3200	3200
AC current	Range	30/300mA, 30/300A	3/30mA, 30/60A	30/300mA, 3/30/300A
	Resolution	0.01mA	0.001mA	0.01mA
	Frequency characteristics	50/60Hz	50/60Hz	40Hz ~ 1kHz
	Method of detection	Mean value	Mean value	True RMS
Other measurement functions	AC voltage	—	—	○
	DC voltage	—	—	—
	Continuity check	—	—	—
	Frequency	—	—	○
	Temperature	—	—	—
	Recorder output	—	—	○
	Waveform monitor output	—	—	—

Accessories

■ Optional Accessories

Item	Model	Specification	Applicable model
AC adapter	B9646GN	100V AC, 50/60Hz	310 30
	940 01	120V AC, 50/60Hz	
	940 02	220V AC, 50/60Hz	
Thermistor type temperature probe	2349 01	Temperature range: -50 to +150°C	2343 02/03/04
Cable for connecting recorder	2349 02	Cable length: approx. 2.5 m	2343 02/03/04, 2345 03
Cable for connecting monitor	2349 03	Cable length: approx. 2.5 m	2345 01/03

■ Supplementary Products

Item	Model	Specification	Applicable model
Carrying case	RB 055	Hard type	310 Series
	RB 056	Soft type	300 10/20
	RB 057	Soft type	300 30/31
	B9646HG	Hard type	2343 Series
	RB 036	Soft type	2345 01
Recorder output plug	RB 012	Hard type	2345 03
Recorder output plug	JC 017	(Two pcs/unit)	310 30
Test lead	RD 031	(A pair of red and black leads)	310 31, 2343 Series, 2345 01

YOKOGAWA 
Yokogawa M&C Corporation

World Wide Web site at
http://www.yokogawa.co.jp/MCC/Welcome_e.htm

⚠ NOTICE

- Before using the product, read the instruction manual carefully to ensure proper and safe operation.

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