

Main features

- External control (Zero-set, Preset etc.)
- Direction switching
- Error messaging
- Tolerance judgment output
- Each data output (RS-232C, BCD, segment)
- Peak measurement (maximum value, minimum value, runout) and arithmetic operation (addition, average, maximum value, minimum value, maximum width) between axes

Optional Accessories

- I/O output connector: **02ADB440**
- D-EV external unit: **02ADD400**
- SPC cable, 0.5m: **02ADD950**
- SPC cable, 1m: **936937**
- SPC cable, 2m: **965014**

Note 1: To perform calibration a **D-EV** display unit is required.

At least one **D-EV** unit is required when using multiple **EV-16A**.

Note 2: As a power supply is not supplied as standard, an appropriate power supply with a current capacity of 1A or more must be provided for each **EV-16A**.

• SENSORPAK



Refer to page G-20 for more details.



Refer to Catalog No. E13003 (Mu-checker) for more details.

EV-16A Counter SERIES 519 — 6-channel, No-display Type

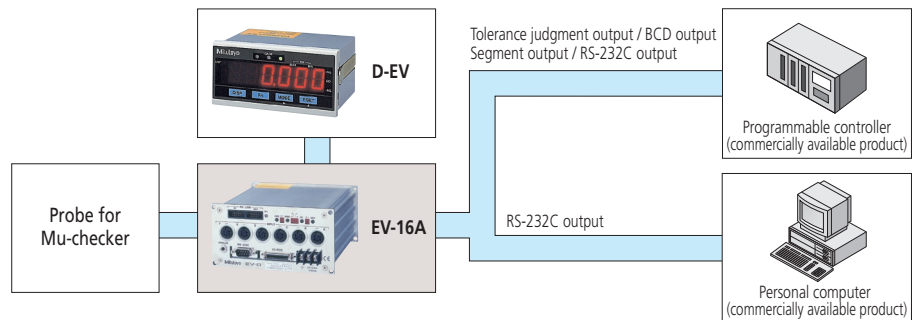


519-355
EV-16A

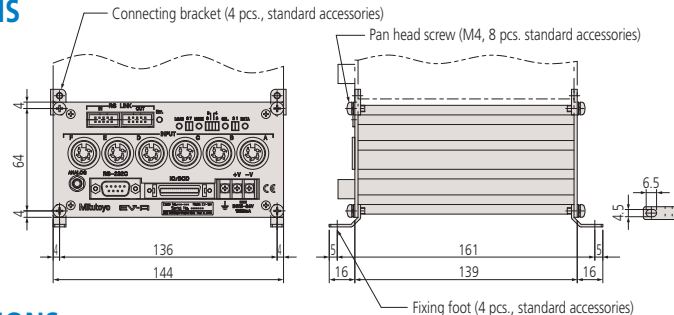
- Up to six probes can be connected to one unit. Up to ten counters can be connected to one personal computer using the RS Link function to enable the configuration of a multi-point measurement system comprising a maximum of 60 gages.
- I/O outputs for RS-232C, BCD, tolerance judgment and segment output are available.
- Maximum, minimum and runout measurement between channels (in the same unit) is possible in addition to normal measurement on individual channels.

SYSTEM CONFIGURATION

Mitutoyo probes, EV-16A counters and D-EV display units combined with commercial controllers and personal computers enable construction of a powerful, multi-channel system that can be built to meet the needs of almost any measurement application.



DIMENSIONS



Unit: mm

SPECIFICATIONS

Order No.	519-335	
Number of gage inputs	Six	
Quantizing error	±1 LSD	
Display range (mm)	±2.000, ±0.200	
Resolution (mm)	0.001, 0.0001	
Display processing	8 digits for parameters (display setting), 1 for error display	
Error messaging	Power supply voltage error, Gage error, etc.	
External display	Dedicated external display unit D-EV (optional) can be connected	
Number of input switches	4	
Input switch function	Measurement mode switching, Parameter settings	
I/O	Tolerance judgment output	1 to 6 gages (L1, L2, L3), open-collector
	BCD output	Parallel BCD output (positive/negative-true logic), open-collector
	Segment output	A function to enable only output from the terminal corresponding to the counting values, open-collector
	Control output	Normal operation signal (NOM), open-collector
Interface	Control input	Output channel designation (segment, in BCD mode), presetting, peak value clear, range changeover (at segment output), holding counting value, open-collector or no-voltage contact signal (with/without contact point)
	RS-232C	Measurement data output and control input, EIA RS-232C-compatible Use cross cables for home position DTE (terminal definition) Max. connected units: 10 (6 when using EF counter) Connecting cable length: Max. 10 m (sum of link cable length) Data transfer time: 1.1 sec/60 ch (when transmission rate is 19200 bps)
Rating	Power supply voltage	Terminal (M3 screw), 12-24 VDC
	Current consumption	1 A
Operating temperature (humidity) range	0 to 40 °C (RH 20 to 80%, non-condensing)	
Storage temperature (humidity) range	-10 to 50 °C (RH 20 to 80%, non-condensing)	
External dimensions	144(W)×72(H)×139(D)mm	
Mass	Approx. 1000 g	
Standard accessories	Fixing foot (4), connecting bracket (4), fixing screw M4×8 (8)	
Applicable probes	For probes, refer to pages G-25 and G-26.	