

## Small capacity bending beam type UTA

2023/03/22

## Features



The measuring capacity of UT series is a little higher than the UL series. It is a push-pull type.

## Specification

Specification name	Specification contents
Rated capacity	980.7 mN{100 gf}~19.61 N{2 kgf}
Safe overload	150 %R.C.
Ultimate overload	150 %R.C.
Rated output	$\pm 2 \text{ mV/V} \pm 0.4 \text{ mV/V}$ (UTA-100GR: $\pm 1.75 \text{ mV/V} \pm 0.35 \text{ mV/V}$ or more)
Non-linearity	0.2 %R.O.
Hysteresis	0.2 %R.O.
Repeatability	0.2 %R.O.
Excitation, recommended	3 V or less
Excitation, maximum	6 V
Zero balance	$\pm 0.2 \text{ mV/V}$ (UTA-100GR: $\pm 0.175 \text{ mV/V}$ )
Input resistance	$270 \Omega \pm 40 \Omega$
Output resistance	$270 \Omega \pm 40 \Omega$
Insulation resistance	1,000 M $\Omega$ 以上(DC50 V)
Temp. range. compensated	0 °C ~ 50 °C

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Temp. range, safe	-10 °C ~ 60 °C
Temp. effect on zero	0.5 %R.O./10 °C
Temp. effect on output	0.5 %LOAD/10 °C
Class of protection	IP30 or equivalent
Durability	1,000,000 times with rated load applied.

## Table of P/N

Parts No.	Rated capacity [N]	Rated capacity [mN]	Rated capacity [gf]	Rated capacity [kgf]	Weight(Approx.) [g]	Natural frequency [Hz]
UTA-100GR		980.7	100		110	300
UTA-200GR	1.961		200		110	440
UTA-500GR	4.903		500		110	700
UTA-1K		9.807		1	110	980
UTA-2K	19.61			2	110	1310

Parts No.	Rated displacement [mm]	Cable	3D CAD files [STEP]	CAD files[DXF]
UTA-100GR	±0.04	4-cores parallel vinyl60 cm directly attached, cable end is separated	<a href="#">UTA-100GR.STEP</a>	<a href="#">ut.dxf</a>
UTA-200GR	±0.04	4-cores parallel vinyl60 cm directly attached, cable end is separated	<a href="#">UTA-200GR.STEP</a>	<a href="#">ut.dxf</a>
UTA-500GR	±0.04	4-cores parallel vinyl60 cm directly attached, cable end is separated	<a href="#">UTA-500GR.STEP</a>	<a href="#">ut.dxf</a>
UTA-1K	±0.04	4-cores parallel vinyl60 cm directly attached, cable end is separated	<a href="#">UTA-1K.STEP</a>	<a href="#">ut.dxf</a>
UTA-2K	±0.04	4-cores parallel vinyl60 cm directly attached, cable end is separated	<a href="#">UTA-2K.STEP</a>	<a href="#">ut.dxf</a>