

MTC-FS

HIGH PRECISION WEIGH CELL

PRODUCT INFORMATION



DESCRIPTIONS

The series MTC-FS Weigh Cells cover the weighing range up to 50 g. They have been specifically designed as compact sensor components and are especially suited for installation into multi-track weighing systems.

Due to the parallel mounting of the sensors, minimum track distances of 15 mm can be realized. An additional integrated sensor compensates low frequency interferences and vibrations, without influences to the weighing accuracy and -speed. The Weigh Cell comes standard equipped to supply final weighing values via a CAN interface as ready to connect modular components. The integrated software filters can be configured multifunctional, enabling optimal adaptation of the weighing system to the respective ambient conditions. The Weigh Cells extensive command set facilitates simplified control engineering integration.

Concerning track distance and number of tracks, all MTC-FS systems, in conjunction with weighing range and structured shape, are always customized and individual.

The structured shapes and variants shown on the following pages are only exemplary.

FEATURES

- ▲ Weighing range up to 50 g
- ▲ Additive dead load range up to 30 g
- ▲ Active Vibration Compensation (AVC)
- ▲ High or flat type structured shape
- ▲ Aluminum or stainless steel housing
- ▲ Track distance from 15 mm
- ▲ Up to 18 tracks in one housing
- ▲ Protection class up to IP 42
- ▲ Binary trigger input
- ▲ Interface 1: CAN
- ▲ Interface 2: RS 232 for service and configuration
- ▲ Sampling rate 1 ms

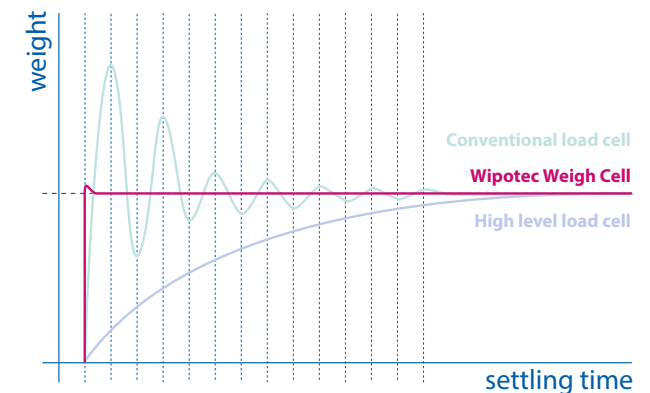
TO BE USED IN

- ▲ Filling machines for vials, syringes, etc.
- ▲ Packaging machines
- ▲ Capsule and tablet weighing machines

OPTIONS

- ▲ **Option 09:** Stainless steel housing
- ▲ **Option 10:** RS 422 instead of CAN interface
- ▲ **Option 12:** Higher display resolution
- ▲ **Option 13:** Binary trigger input
- ▲ **Option 32:** Built in test weight

With the optional CFI (CAN Fieldbus Interface) it is possible to connect to a variety of industrial fieldbus systems. Please see specifications on our [website](#).



Weigh Cell type	MTC 1/5-FS	MTC 2/10-FS	MTC 10/30-FS	MTC 50/30-FS
Weighing range	1 g	2 g	10 g	50 g
⁴⁾ Electrically adjustable dead load range	1 - 5 g	5 - 10 g	10 - 30 g	10 - 30 g
Display value (d)	0.00002 g	0.0002 g	0.0005 g	0.001 g
³⁾ Display value (d) with higher resolution (Option)	0.00001 g	0.0001 g	0.0002 g	0.0005 g
Linearity ≤	± 0.00002 g	± 0.0002 g	± 0.0005 g	± 0.001 g
¹⁾ Repeatability (S) ≤	0.00001 g	0.0001 g	0.0002 g	0.0005 g
Smallest possible track distance	25 mm	15 mm	15 mm	25 mm
Maximum diameter of weighing platform	15 mm	20 mm	20 mm	30 mm
¹⁾²⁾ Settling time (on 1‰ of final value)	< 200 ms			
Protection class of the Weigh Cell	IP 42			
Temperature range	+5 °C to +30 °C			
Power supply	24 V DC, ± 5 %			
Interface 1	CAN, RS 422			
Interface 2	RS 232			
Housing material	Aluminum hard coated			

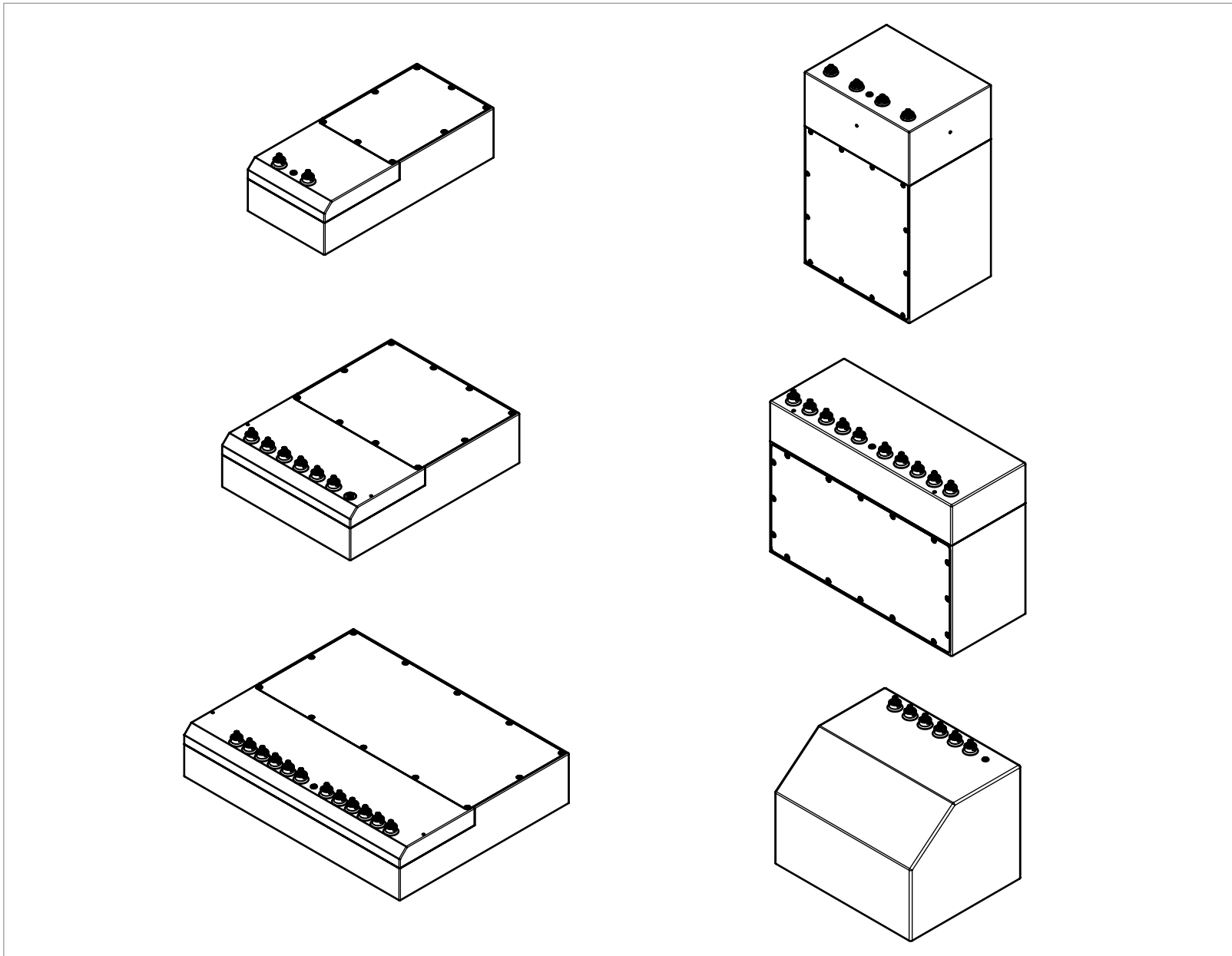
1) Depends on the preference settings and on setup and ambient conditions of the system | The absolute repeatability is +/- 3 s

2) Weighing time = settling time plus (adjustable) measuring time

3) Temperature range: +10° to +30 °C

4) From weighing platform mounting bolt

Customer specific variations on request



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Subject to technical modifications

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