

BoltSafe

Load Measuring Systems



Product sheet | SM-300 Handheld Reader

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How the SM-300 Handheld Reader works

The SM-300 handheld reader is a handheld instrument that reads and stores data from both the CMS (Continuous Monitoring System) BoltSafe load cells. The CMS load sensor has a connector cable which connects directly to the SM-300. The handheld reader then shows the value of the connected sensor on the LCD display.

When using the handheld reader, the user can monitor the residual bolt load directly on the reader. With the SM-300 you can store the load and sensor temperature manually, including a time stamp. And you can set a log interval. If you connect the SM-300 to a PC with a USB-C cable, you can send the measured bolt load data to a Windows PC afterwards. If connected to the PC it's also possible to generate a real time plot on the PC and store these for later evaluation.

How the SM-300 Handheld Reader is used

The handheld reader can be used for direct readout during the initial setting of the residual bolt load in the bolted joint, but also for subsequent checks while the bolt has already been mounted. The SM-300 will read and display the bolt load data from the load cell on its LCD display. This data can be displayed either in kN (Kilonewton) or in lbf (Pound-force). When there is no sensor connected, the unit will switch off automatically after one minute.



The bolt load data can be stored on the handheld reader with the push of a button or logged with a set interval. The handheld reader can store data from up to 43.000 different measurements. This data can be transferred from the handheld reader to a computer. Reports can be printed as well for future reference.



Technical data **SM-300 Handheld Reader**

Choice of units	kN and °C or lbf and °F
Storage capability	43.000 measurements
Display	LCD Display (48 x 28 mm) with adaptive LED Backlight
Keypad	3 key membrane keypad
LED indicator	Red and green status LED
Communication	USB-C (1m cable USB-A to USB-C included)
Software	Freeware from our website (Windows 7/8/10/11/IoT)
Battery	3.7V/1920mAh/7.03Wh Rechargeable Li-Ion battery
Charging	5Vdc 350mA with USB-C (USB charger not included)
Operating time	72+ hours
Stand-by time	6+ months
Operating temperature	-20°C to 50°C
Sealing	IP47
Material	Aluminum
Weight	290 gr
Dimensions	71 x 134 x 23 mm
Connection	M12x1, 5P, Female connector (BoltSafe CMS standard)
CE-approval	Tested to comply with: Emission requirements EN 50081-1, EN 55011B Immunity requirements EN 61000-6-2 EN 61000-4-2, EN 61000-4-3, ENV 50204





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