



## M2F Controller

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## APPLICATIONS

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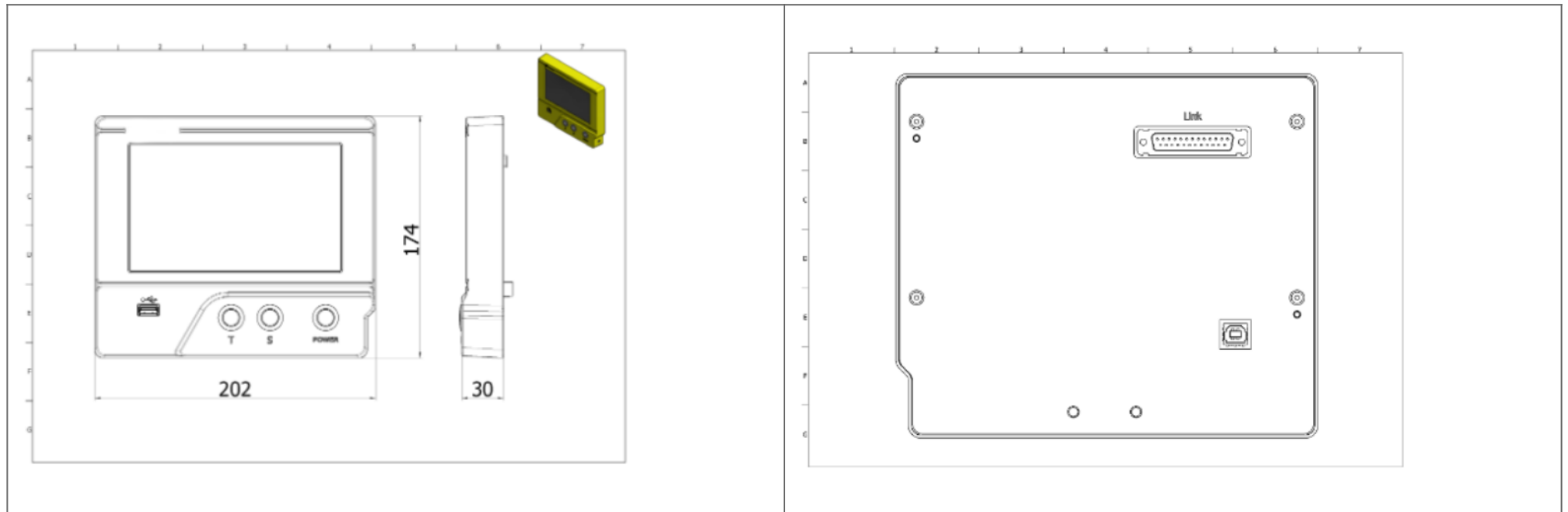
### M2F Controller

The M2F controller is an advanced and versatile controller for material testing, capable of analyzing load cells, torque sensors, pressure sensors, encoders, and various other signals. All units can be adjusted according to the user's requirements.



It features real-time display and can record process data over short periods. Data can be restored via a USB port and exported to an Excel sheet for further analysis. Specified software is available for additional analysis, and users can also write their own software. If customers have special requirements, the device can be modified and customized to meet their needs.

## Dimensions





# M2F Controller Technical Specifications

M2F Series		
Power force(DC)	5V and 12V (50W)	
Control signal input	Four sets of input signal for selection	
	Two set of stress sensor:	4~20mA
	Two force sensor:	1.0mV/V, 1.5 mV/V, 2.0 mV/V, 3 mV/V, 4 mV/V
	(Internal + External) Three sets of Encoder signal input	
	Input signal: upper limit, lower limit, emergency stop, goes up, go down, set aside two sets.	
Expand D-Sub	Input signal: 4 sets, output signal: 4 sets	
Communication Interface	TCP/IP RJ45 Connecting Cable	
Load cell Resolution	31 bits	
Load cell precision	1/100,000	
Encoder signal voltage	5V	
Encoder signal mode	Single-ended (Open Collector), Differential square wave (Line Driver)	
Display panel	7 inch of TFT Color touch panel	
Language selection	English and other languages	
Data assess	Can use USB to proceed with data access (can export test data to Excel for further data analysis)	

## M2F Series

Specified software is optional for data access

Data sampling rate	2, 5, 10, 25, 50, 100, 400, 1200Hz
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Interface function	Data	Display: Force, Stress, Torque, Displacement, Time
	Graph	Display: Force, Displacement, Time, stress, strain
	Data Analysis: Maximum force, deformation percentage at maximum force point, stress at maximum force point, percentage of elongation at maximum force point, force at break point, deformation percentage at break point, stress at break point, percentage of Elongation at specified break point, interval average load, Max. Force and so on.	
	Unit changeable (Metric system or imperial system)	

Calibration setting	Calibrated parameter setting can be provided
	Can be used on various capacity of load cell and no need to recalibration after replacement



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