



## New Smart Indicator

The **BRAVO Smart Indicator** for Force & Torque transducer .  
The Smart Indicator is suitable for use in calibration labs for force and torque, field service, or anywhere high accuracy is important. Features include a touch screen 6-digit display, remote sense, low noise, 24-bit resolution, USB port communication, apply load calibration and the ability to store up to 6 different sensors. 10-point linearization, unit conversion

### Advanced Technical Features in Each Model

- Full Color Touch Screen display
- Fully Bipolar Range +/- 999,999 Display.
- Bar Graph Display
- High Accuracy +/- 0.5% FS
- 10KHz sampling frequency
- USB Communication Port.
- 10 Point Calibration Linearization.
- First Peak Mode, Peak Mode & Track
- Sensor automatic recognition
- 5,000 of test data storage
- Statistic report
- Torque measurement units : N.m, cN.m, Lbf.in, Kgf.m, Kgf.cm
- Force measurement units : gf , kgf ,N,KN,lbf



### Specifications

Excitation : 10VDC

Outputs : USB Port

Maximum Display Counts : +/- 999,999

Internal Resolution : 24 bits

Transducer up to 6 unit

Operating Temperature 10 to 50 °C

Power Requirements: 220Vac/50Hz

### Ordering Information

Tech Quality Co.,Ltd.

2/13 Sukapiban 2 Rd., Pravet ,  
Pravet, Bangkok 10250 Thailand

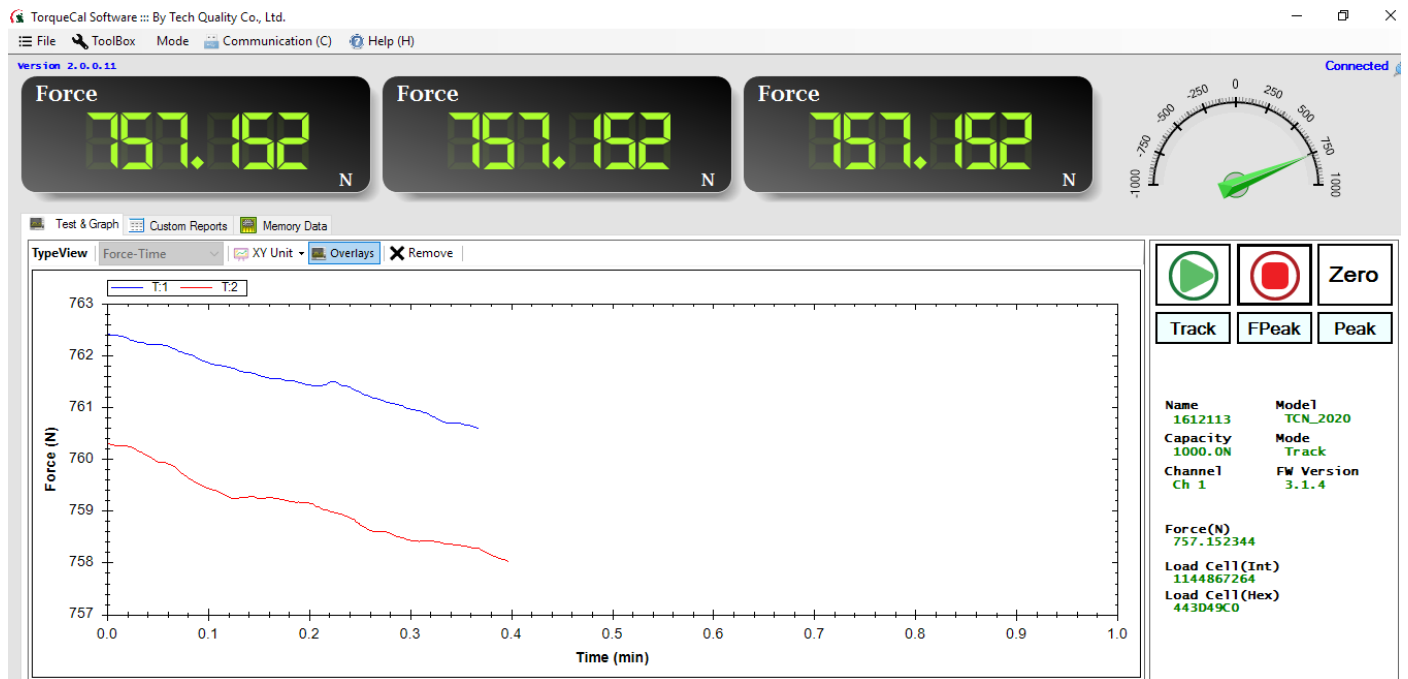
Tel : +662 328 6878 (Auto 4 Line)

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[www.tech-quality.com](http://www.tech-quality.com)

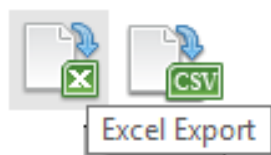
email: [info@tech-quality.com](mailto:info@tech-quality.com)

# Force and TorqueCal Software



The 'Displays ToolBox' window allows users to configure the display settings for three channels. It has columns for 'Variable', 'Unit', and 'Decimal'.

Display	Variable	Unit	Decimal
Display 1	Torque	Kgf.cm	3
Display 2	Force	N	3
Display 3	Torque	N.m	3



The 'Excel Setting' dialog box is used to configure data export. It includes the following fields:

- Template: Load Cell 1 kN.xlsx
- SheetName: Tension
- Start Record Cell: E8
- Decimal place: 6
- Row Count: 6
- Unit: N
- Column Count: 4

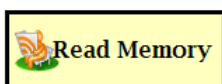
Buttons for 'Detect', 'OK', and 'Cancel' are also present.

## Software feature

- Simple installation using USB port
- Download data from indicator
- Auto report conform to ISO 6789 for torque tool calibration device .
- Auto report conform to ISO 7500-1 for force of Universal Testing Machine
- Real time graph display
- Maximum 6 decimal point
- BRAVO recommends a PC running Windows 10/8with a minimum of 1GB of RAM

### Memory Static Data

Memory Static Index 48  
 Memory Static Total Length 48  
 Tension Data Counter 12  
 Compression Data Counter 15  
 Direction Tension



### Memory Static Data Table

No	Date	Value	Unit	Capacity(N)
1	18/01/2000	33.259	N	1000
2	18/01/2000	34.497	N	1000
3	18/01/2000	18.259	N	1000
4	18/01/2000	16.304	N	1000
5	18/01/2000	13.416	N	1000
6	18/01/2000	4.92	N	1000
7	18/01/2000	43.287	N	1000
8	18/01/2000	51.815	N	1000
9	18/01/2000	44.463	N	1000
10	18/01/2000	27.841	N	1000
11	18/01/2000	6.42	N	1000
12	18/01/2000	3.08	N	1000