

## Tension Meter

# TM SERIES



## Tension Meter

TM provides cost-effective and advanced solutions for monitoring and controlling overhead loads in various industrial applications such as shipyards, construction sites and shipbuilding yard etc. It is designed in IP65 waterproof aluminum enclosure for protection against moisture, dust and rough usage.



Large LCD Display



IP65 Waterproof Enclosure



X1000 T lb daN kg

Conversion of Various Units



Various Communication Interface

## IP65 waterproof aluminum enclosure

Built to withstand rugged, moisture and dusty environment

## Large LCD display

Weights are easily viewed with large LCD display.  
(letter height :1.2inches, 30mm)



## Conversion of various units

kg, lb, N, x1000N (kN), daN, ton (Short ton or Long ton) and x1000kg (Metric ton)



## 1. Long battery operating time

Operates on 4 AA size 1.5V alkaline batteries for 500 hours in a wire communication and 44 hours in a wireless communication during continuous use



## 2. Linkable with TWN (Option)

TM can be operated with the Optional TWN hand held wireless indicator via Bluetooth or Zigbee. TWN offers greater control over functions while viewing the weight.



## 3. Various Communication Interface

TM basically offers RS-232C and 3 Set-point ports and two optional wireless communications, bluetooth or zigbee to be connected with external equipments.

- Wireless communication distance
  - Bluetooth:Max.100m
  - Zigbee:Max. 100m



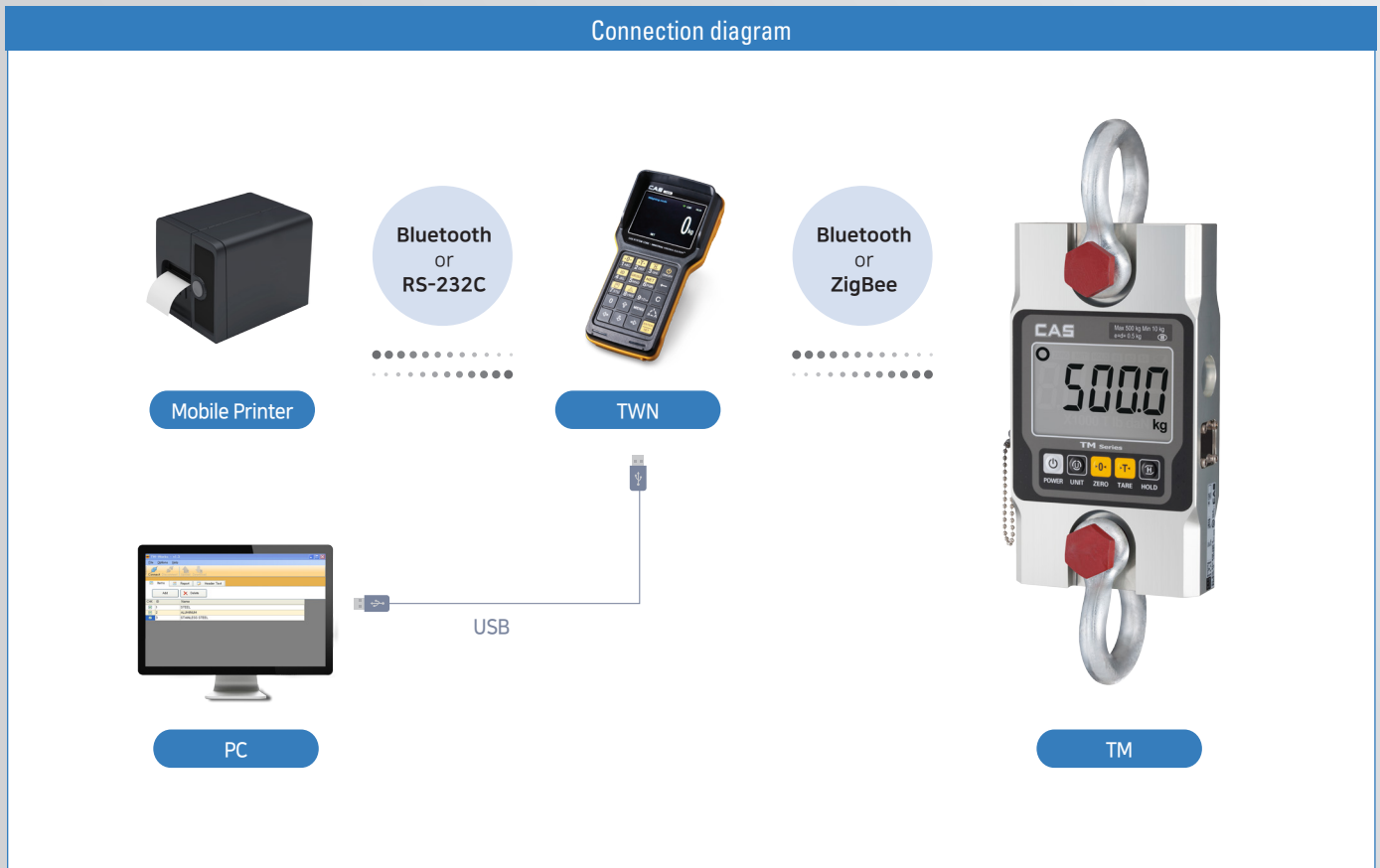
Wire type

Wireless type

## ■ TM Connection

- Control and view the TM's weight rereading wirelessly using the TWN.(TM↔TWN)
- Connect to a wireless bluetooth printer for printing data.(TWN↔Mobile printer)
- Connect the TWN to a PC which TW-Works is installed via USB to upload/download weighing data, Item No., Item Name and Header Text (for printing) (TWN↔PC)

Connection diagram



## ■ Features

- Wide range of Capacities 500kg~50,000kg
- Conversion of various units
  - kg, lb, N, kN (x1000N), daN, ton (Short ton or Long ton), x1,000kg (Metric ton)
- IP65 Waterproof aluminum enclosure
- Large LCD display(letter height:1.2inches, 30mm) to easily view weights
- 5 function keys for easy and simple operation
- Peak hold, set points for relay control and keypad setup
- Long battery operating time
- Two optional wireless communication
  - Bluetooth or Zigbee
- Various communication interfaces
  - Standard:RS-232C, Setpoint(3EA)
  - Option:Wireless communication Bluetooth or Zigbee

## ■ Options

- TWN (Selectable between Bluetooth or Zigbee communication)
- Wireless communication(Selectable between Bluetooth or Zigbee)
- Top and Bottom Shackle
- Portable carrying case(only for under 5 ton)
- 20m Cable

## ■ Applications



Shipyard

Construction site

Warehouse

## ■ Specifications

Model	TM Series							
Max. Capacity(kg)	500	1,000	3,000	5,000	10,000	15,000	25,000	50,000
Division(kg)	0.5	1	2	5	10	10	20	50
Accuracy	≤ 0.1% of full capacity							
Unit	kg, lb, N, kN(x1000N), daN, ton (Short ton or Long ton), x1,000kg (Metric ton)							
Safety Factor	3:1							
Power	4 AA size 1.5V alkaline batteries / 0.3-0.5W							
Battery operating time	Wire type: Approx. 500 hours / Wireless type: Approx. 44hours							
Display	5 digit LCD display / Character height: 1.2inches (30mm)							
Operating Temperature	-20~60°C							
Protection Class	IP65							
Material	Aluminum				Steel			
Communication	Standard RS-232C / Setpoint(3 points)							
	Option Bluetooth or Zigbee wireless communication							
Wireless Communication Distance	Bluetooth:Max. 100m / Zigbee:Max. 100m(only for open site)							
Options	Shackle, TWN , 20m Cable, Carrying case							
Product Weight(kg)	2.3	2.3	2.5	3.3	12	18	22	40

## ■ Dimensions

