

TF-200

VER 101

WIRELESS DONGLE

Operation Manual



Attention

- (1) All rights reserved.
- (2) This manual's contents are changed without notice.
- (3) If you want to know about detailed of this manual and want to ask something to our company please contact to our agency or head office.
- (4) Please understand that we don't take any responsibility about this product.
- (5) We cannot provide secure service because it will possible interference this year.

FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and**
- (2) This device must accept any interference received, including interference that may cause undesired operation.**

[Note] The manufacturer is not responsible for any interference, for example RADIO or TV interference, caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

[IMPORTANT NOTE] To comply with FCC RF exposure compliance requirements, this device must not be co-located or operating in conjunction with any other antenna or transmitter

A. INTRODUCTION

Thank you very much for purchasing our products. TF-200 is designed to deal for various request of industry scene. You can use anytime this radio system. Please read this manual before you use this product then to make use of collect and to apply functions.

< Precaution >

- ◆ Please avoid it from changeable temperature.
- ◆ please don't too much shock to it.
- ◆ Please put it seasoned place.
- ◆ Keep it out of the direct rays of the sun and avoid a vibration.
- ◆ Please don't put it high voltage and too much electric wave place.
- ◆ Please avoid from the rain.
- ◆ Don't take it apart, remodel, convert and fix intentionally.
- ◆ Please you charge only use an adapter for attachments.

B. FEATURE

- ◆ The wireless transmitter and a receiver.
- ◆ It can use for wireless printer if it connect to serial-printer.
USER MODE : YJ-360 printer
EXT. KEY MODE : YJ-380 printer

C. TECHNICAL SPECIFICATIONS

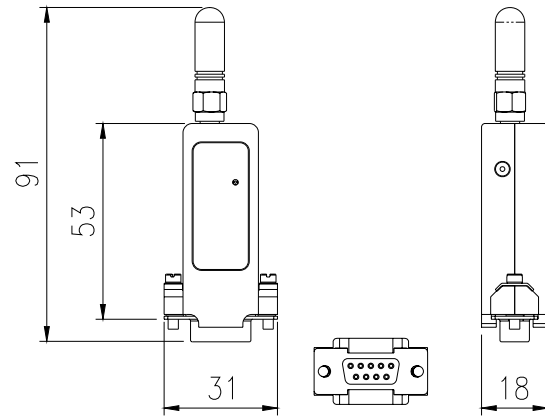
◆ General specifications

Case material	Engineering Plastic
Temperature range	-10°C ~ 40°C
Display lamp	Red (power on)
Adaptor	DC 5V, 2A

◆ Wireless communication specifications

RF frequency range	2402 ~ 2480 MHz
Output power	Under 10 dBm
Channel width	2 MHz
Frequency offset	< ±30ppm
Transmit data rate	250Kbps, 500Kbps
Receiver sensitivity	-99dBm (PER <1%)
Maximum input level	0dBm
RF In/out impedance	50 ohm (TXRF, RXRF)
Spurious(2nd harmonics)	< -30dBm
Radio link effective range	Approx. 100M (Open space)

◆ PRODUCT SIZE



◆ SPECIFICATIONS: 9PIN D-SUB CONNECTOR

PIN1	PIN2	PIN3	PIN4	PIN5	PIN6	PIN7	PIN8	PIN9
	TXD	RXD		GND				VCC DC 5V

Baud rate: 9600bps, 8bit, 1 stop bit, none parity

◆ LAMP & ADAPTOR JACK

Switch of setting up state and wireless mode

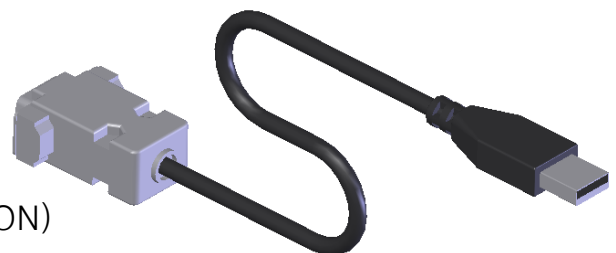
Lamp of state

Adaptor of power (5V)



◆ ITEMS

- Body: 1EA
- Manual: 1EA
- Adaptor: 1EA (OPTION)
- USB-RS232C cable: 1EA (OPTION)



D. CONSTITUTION OF WIRELESS

(1) Serial printer [When it use for printer to set MODE 2]

It can print weigh date by wireless when it connects to serial printer.



[YJ-360]

YJ-360

It can print only USER MODE. It has many functions TF-100
It use for printing to use wireless controller.

YJ-380

It has many functions for example are EXT.KEY MODE etc.
It can print the total and subtotal from simple indicator or a scale
when they connect to it.

When YJ-360 or YJ-380 uses it needless any power source from external. (Printer has power sources itself)



[YJ-380]

(2) PC : RS-232C 9PIN D-SUB serial port

When computer has 9PIN D-SUB serial port, you can use TF-200 by connecting directly. But when that time, you must use additional power adaptor (it is being sold separately)

(3) PC : USB port

It needs not to use additional power adaptor by using the extra exchanging cable (it is being sold separately. cable has power sources itself)

E. SETTING MODE

◆ Setting of mode

– The way to change mode.



– Connect the power while pressing the switch



– Mode is changed after light that is orange color turning on and off of light for the 5 seconds.



red -> green red -> green

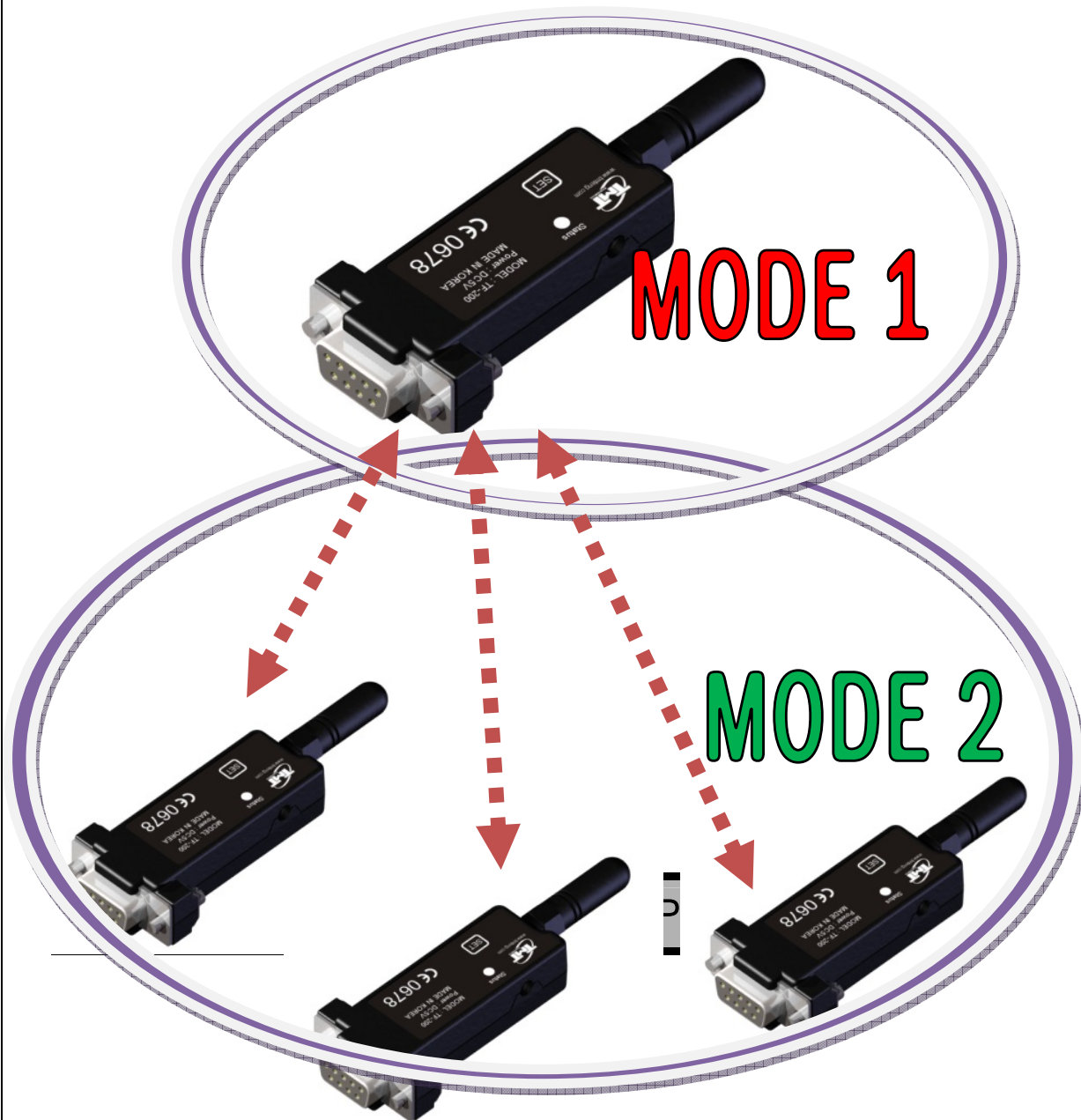
– When the changing to the mode you hoped is not completed, can change by repeating the flow 1~3 till success

◆ Map of constitution

- MODE 1 [lamp: red] : COORDINATOR
- MODE 2 [lamp: green] : END DEVICE

There is only one of 'Mode 1' in group. 'Mode 2' can connect with the machine number of N.

You can connect like the picture of below [1 : 1] [1 : N]



◆ Setting a wireless group

– The way to enter the pairing mode



– When you enter the pairing mode, it has no connection with a condition of mode. Press “set switch” of the TF200 for the 5 seconds with the power on that connected.



– After 5 seconds , If entering to the pairing mode is completed, Light that is suitable to the mode turns on and off.

Way to enter the pairing mode of both products of MODE 1 and MODE 2 are same way.



If you press the 'set button' on the MODE 1 when condition of that is same with (2), Entering to the pairing mode will be completed over turning on and off with red & green.

MEMO

EC Declaration of Conformity

Manufacturer TMT ENGINEERING CO., LTD.

Address 901, Gangbuk electronic complex #229-10, Beon-dong,
Gangbuk-gu, Seoul, 142-705 South Korea

Declares that the following product

Product Name: ZIGBEE WIRELESS DONGLE

Model Number: TF-200

conforms to the technical regulations applicable to the product within the scope of Directives 2006/95/EC (LVD), 2004/108/EC (EMC), and 1999/5/EC (R&TTE):

Article 3.1(a) **Health** EN 50371:2002

Article 3.1(a) **Safety** IEC 60950-1:2001
EN 60950-1:2006

Article 3.1(b) **EMC** EN 301 489-1 V1.8.1 (2008-04)
EN 301 489-17 V1.3.2 (2008-04)

Article 3.2 **Radio** EN 300 328 V1.7.1 (2006-10)

All essential radio test suites have been carried out. The relevant technical file is available for inspection.

Notified Body EMCCert Dr. Rasek GmbH
Boelwiese 5
91320 Ebermannstadt
Germany
EU Identification Number: 0678

CE 0678

This declaration is issued under the sole responsibility of the manufacture and, if applicable, his authorized representative.

Point of contact Sim Jaeil, TEL:+82-2-987-7001, FAX:+82-2-987-8007

(Name, telephone and fax number)

South Korea, February 22, 2010

(Place, date of issue)

Jae il Sim

(Signature)

Sim Jaeil / Assistantant Engineer

(Name and title in block letters)