テレメジャーII telemeasure II Transmitter (Digimatic) Operations Manual

TelemeasureII Transmitter transmits measured data received from digital measuring devices by FM radio wave.

1. Caution

1) Avoid to use at the following places:
Place with much dust, direct sunshine, high temperature, possibility of stain by acid/alkaline/organic solution or water/oil, strong electromagnetic shield, strong electromagnetic wave, spark by arc welder or electrical discharge machine、strong radio wave near by high voltage electric wire or radio station
2) Do not add a shock by excessive power or drop.
3) Do not use organic solvent such as thinner. Please wipe off the dirt with dry cloth, neutral detergent or alcohol lightly.
4) Never take it apart!
5) Do not add excessive power to cable to avoid the breaking.

2. FCC Warning

Changes or modifications not expressly by the party responsible for compliance could void the user's authority to operate the equipment.

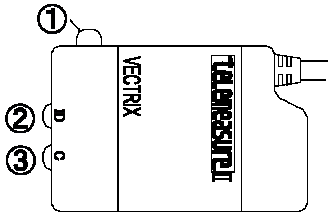
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC ID: 2AM9D GC667894

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
--Reorient or relocate the receiving antenna.
--Increase the separation between the equipment and receiver.
--Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
--Consult the dealer or an experienced radio/TV technician for help. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency(RF)Exposure Guidelines in Supplement C to OET65. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio(SAR).

2. Name and Function



①DATA Transmission Switch *1
(DATA Sw.)
Wireless data transmission shown on LCD of measuring equipment

②ID No. Setting Switch(ID Sw.)
Whole number on the LCD is set as ID No.
(Details are mentioned later.)

③CANCEL Switch (C Sw.)
While pushing this switch、when push DATA Sw., it transmits cancel signal for latest data.

*1 For external switch type (TXG-xxQ) here is DATA transmission cable. Connect hand switch or foot switch, then push its transmission button.

3. Operations

3. 1 Battery (CR2032 ; Nominal voltage:3.0V) exchange

1) Insert the flat blade screwdriver to the side of the battery cover. Remove the battery cover so as to spread it outward.
Insert the flat blade screwdriver to the lower side of battery holder、then remove the used battery.

Insert a new coin lithium battery (CR2032) from upper side of battery holder.
Notice: Please pay attention to the polarity of battery.
Plus(+mark);face Minus;back

2) Mount the battery cover.

*2 Implemented battery at shipping is monitoring use. It may not satisfy the life of battery.

3.2 Connection with the measuring equipment

Transmitter itself does not function.
Connect with interface of digimatic measuring equipment.

3. 3 ID No. setting

For wireless data input, ID No. of transmitter and ID No. setting at QCPRO/QCPROEX installed in PC must be same.
Telemeasure has ID No. setting function where user can set any integer from 0～99 as ID No.
ID No. setting of transmitter is as follows:

*3 About ID No. setting at PC side, look at operations manual of QCPRO or QCPROEX.

1) Confirm numeric on LCD of measuring equipment.
2) Let measuring equipment show ID No. you want to set. The decimal number does not matter.
3) Push ID Sw. then buzzer sounds "Pi".
The integral part is set as ID No. (X: any number)

Display on LCD	ID No.
0. XX mm	0
1. XX mm	1
12. XX mm	12

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*4 Notice:
Available ID No. may be limited if you use measuring equipment which has limited measuring range.
For measuring equipment having origin & preset function, larger number than measured number can be set as ID.
Please see the instruction of each measuring equipment.

Reset of Transmitter;

In case of malfunction, but the battery has voltage(3.0V or more), please rest the Transmitter.
・Remove the battery See 3.1 1)
・While pushing 3 SW's. (CANCEL, ID No. and DATA) at a same time, insert battery., then buzzer sounds “Pi”, “Pi”, “Pi”,
※ After the reset ID No.=0, Receiver No.=1 (at shipping)

Guarantee

----- Guarantee rule -----

This product is manufactured under strict quality control.
If trouble due to our manufacture or transportation occurred to product within 6 months, we will repair it free of charge.
In the following cases, repair will be charged even within the period of guarantee.
・Trouble due to misuse or improper handling
・Trouble due to the remodeling by customer
・Change in the appearance such as scratch during the use
・Trouble due to inevitability such as fire earthquake, flood or due to abnormal voltage.
・This guarantee is valid only in Japan.

＜To Agent＞
Please fill & sign the above “Guarantee”, then give it to customer.

＜High-performance Function＞

（In case of normal usage without High-performance Function using one receiver, please skip it.） Multi-settings among Item2 ～ Item4 are unavailable. Except Item2 setting of receiver DR-200 side is necessary.

1. Setting of Receiver No.(Multi-receiver use)

If you use more than one receiver in one area, to avoid radio interference you can set Receiver No. to each transmitter.
Receiver No. is chosen from 1～128. Operation:
①Let measuring equipment show numeric where the integer should be Receiver No. which you want to set.
②While pushing C Sw., push ID Sw.
After completed setting, buzzer sounds “Pi”.
*5 Default(Shipment) Receiver. No.=1
*6 Operation for receiver DR-200U/R is required.
（Look at the operation manual of DR-200U/R.）

2. Interval Transmission

TXG- has function to transmit data every specified time.

2. 1 Setting

①Interval active : Let measuring equipment show “0.2”.
Then while pushing C Sw., push ID Sw.
The confirmation is checked by buzzer sounds “Pi”.
②Interval time : Let measuring equipment show “0.00～0.16”.
Then while pushing C Sw., push ID Sw.
③Interval cancel : Let measuring equipment show “0.3”.
Then while pushing C Sw, push ID Sw.

Interval function	Display	Interval function	Display
① Active	0.2	③ Cancel	0.3
Interval time	**Display**	**Interval time**	**Display**
Min. (appr. 0.4sec.)	0.00	1min.	0.11
1sec.	0.01	2min.	0.12
2sec.	0.02	5min.	0.13
5sec.	0.03	10min.	0.14
10sec.	0.04	30min.	0.15
30sec.	0.05	60min.	0.16

Name・Type		Transmitter TXG－
Serial No.		
Period of guarantee		6 months from purchased date
Date purchased		Day Month Year
Customer	Company	
	Address	〒
	Division	
	Name	
	TEL.	
Agent (Company, Address, Tel., Name) (Signature)		

*7 Minimum time depends on measuring equipment.
*8 Number under place of above “Display” is ignored. (Ex.0.03~~9~~)

2. 2 Transmission start and halt

①Start Push DATA Sw. of transmitter, then sounds “Pi”.
(By DATA Switch of cable side it does not work.)
②Halt Push C Sw. Then buzzer sounds “Pi”.
*9 During interval setting, cancel function does not work.
*10 For change of interval time、please set again after halt by C Sw. or cancel of interval function.

3. Two-way communication (Wireless trigger)

Transmitter TXG series has reception function, also receiver DR-200U/R has transmission function. By this two-way communication function, DR-200U/R can transmit trigger signal to TXG so that TXG should transmit measured data to DR-200U/R. The merit is that without pushing DATA Sw. far from DR-200U/R, wireless data transmission is available.
Trigger function is applied to maximum 16 transmitters.
16 measured data will be sent to DR-200U/R at once.
※If you use DR-200mini as receiver, this function does not work.

3. 1 Setting of wireless trigger

①Let measuring equipment show "0.4"(number under 2nd decimal place is ignored.)
②While pushing C Sw., push ID Sw. After completed setting, buzzer sounds "Pi". *11 ID No. of transmitter which can be triggered by DR-200U/R is limited from 0～15.

3. 2 Wireless trigger start

①Push DATA Sw., then buzzer sounds "Pi".
Transmitter is ready to receive trigger signal from DR-200.
While waiting trigger signal, to save consumption of coin battery, transmitter checks the signal 0.1ms every 0.5ms.

3. 3 Trigger data transmission

Receiving trigger signal (data request signal) from DR-200U/R, transmitter transmits measured data.
Maximum time from trigger till data receipt is about 4 sec. for 1 transmitter. (For 16 transmitters 12 sec.)
It is because of intermittent trigger reception and automatic retrial action between data trigger and transmission.
*12 Operation for receiver DR-200U/R is required.
(Look at the operation manual of DR-200U/R.)

3. 4 Wireless trigger halt and restart

①Halt Push C Sw. Then buzzer sounds "Pi".
Transmitter stops waiting trigger signal.
If transmitter does not receive trigger signal 5 minutes, it also automatically stops waiting trigger signal.
②Restart Push DATA Sw.

3. 5 Cancel of wireless trigger

①Let measuring equipment show "0.5"(number under 2nd decimal place is ignored.)
②While pushing C Sw., push ID Sw.
After completed setting, buzzer sounds "Pi".

4. Data reception acknowledgment from DR-200

By 2 way communication between transmitter & DR-200U/R, buzzer of transmitter can be set to sound "PiPiPi" or "Pi" which means data reception acknowledgment from DR-200.
Acknowledgments, buzzer sounds and their displays of measuring equipment for setting/cancel are as follows.
①Let measuring equipment show "0.8 / 0.6 / 0.9 / 0.7"
②While pushing C Sw., push ID Sw.

Acknowledgment / Buzzer Sound	Display	
Non-reception sound / "PiPiPi"	Set:0.8	Cancel:0.9
Normal reception sound / "Pi"	Set:0.6	Cancel:0.7

* 13 Shipping default: "Cancel"
* 14 For longer battery life: Recommend you to "Cancel"
* 15 During wireless trigger, this function does not work.
* 16 Setting of normal reception sound is effective only if non- reception sound is set.
* 17 Operation for receiver DR-200U/R is required. ("Reply of reception acknowledgement")
* 18 If you use DR-200mini as receiver, this function does not work.

※ Because of radio wave specifications Telemeasure II is incompatible with Telemeasure I .
※ About radio wave specifications see operations manual DR-200U/R.
※ Specifications shall be changed without notice.

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