

# VIDEOTEC DTWRX Telemetry Data Receiver for Wiper and Washer Remote Control Instruction Manual

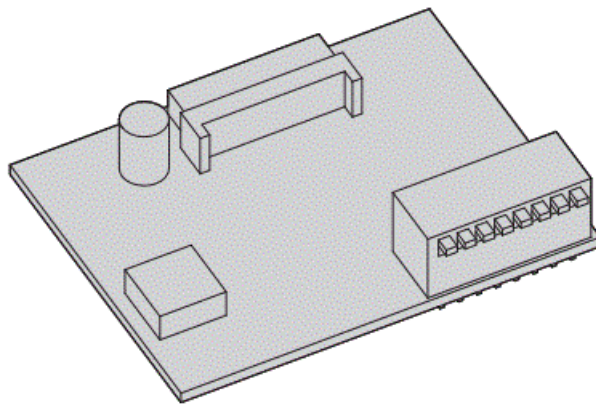
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*VIDEOTEC DTWRX Telemetry Data Receiver  
for Wiper and Washer Remote Control  
Instruction Manual*



# DTWRX

**Telemetry data receiver for wiper and washer remote control**



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## 1 About this manual

Read all the documentation supplied carefully before installing and using this unit. Keep the manual in a convenient place for future reference.

### 1.1 Typographical conventions



#### **DANGER!**

High level hazard. Risk of electric shock. Disconnect the power supply before proceeding with any operation, unless indicated otherwise.



#### **CAUTION!**

Medium level hazard. This operation is very important for the system to function properly. Please read the procedure described very carefully and carry it out as instructed.

#### **i INFO**

Description of system specifications. We recommend reading this part carefully in order to understand the subsequent stages.

## 2 Notes on copyright and information on trademarks

The mentioned names of products or companies are trademarks or registered trademarks.

## 3 Safety rules



**CAUTION!** Device installation and maintaining must be performed by specialist technical staff only.

- The manufacturer declines all responsibility for any damage caused by an improper use of the appliances mentioned in this manual. Furthermore, the manufacturer reserves the right to modify its contents without any prior notice. The documentation contained in this manual has been collected and verified with great care. The manufacturer, however, cannot take any liability for its use. The same thing can be said for any person or company involved in the creation and production of this manual.
- Before starting any operation, make sure the power supply is disconnected.
- Be careful not to use cables that seem worn or old.
- Never, under any circumstances, make any changes or connections that are not shown in this handbook. Improper use of the appliance can cause serious hazards, risking the safety of personnel and of the installation.
- Use only original spare parts. Non-original spare parts could cause fire, electrical discharge or other hazards.
- Before proceeding with installation, check the supplied material to make sure it corresponds to the order specification by examining the identification labels (4.2 Product marking, page 2).

## 4 Identification

### 4.1 Product description and type designation

The DTWRX receiver is an optional board for remote control of wiper and washer pump. It works only with WASPT pump series, where it can be easily installed thanks to its connector. It allows the control of wiper and washer functions when the housing is stand-alone, not mounted on a P&T and then without telemetry receiver.

### 4.2 Product marking

See the label attached to the product.

## 5 Preparing the product for use



Any change that is not expressly approved by the manufacturer will invalidate the guarantee.

### 5.1 Unpacking

When the product is delivered, make sure that the package is intact and that there are no signs that it has been dropped or scratched.

If there are obvious signs of damage, contact the supplier immediately.

When returning a faulty product we recommend using the original packaging for shipping.

Keep the packaging in case you need to send the product for repairs.

### 5.2 Contents

Check the contents to make sure they correspond with the list of materials as below:

- Data receiver board
- Instruction manual

### 5.3 Safely disposing of packaging material

The packaging material can all be recycled. The installer technician will be responsible for separating the material for disposal, and in any case for compliance with the legislation in force where the device is to be used.

## 6 Installation

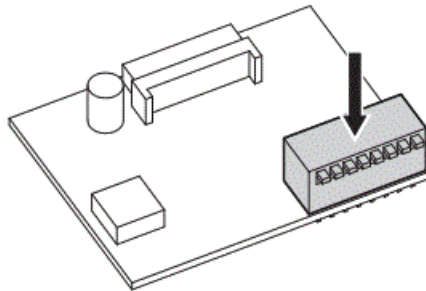


Electrical connections must be performed with the power supply disconnected and the circuit-breaker open.

**i** Use cables with the characteristics outlined below.

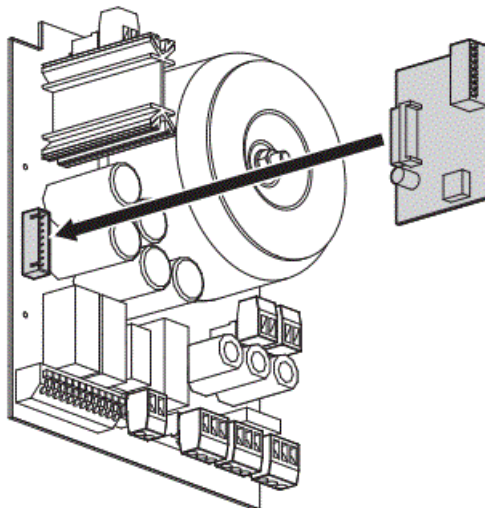
- Type: twisted cable
- Minimum section: 0.5mm<sup>2</sup> (20AWG).
- Maximum length: 1200m.

Configure protocol, baud rate and receiver address via the DS1 DIP switch (Tab. 1, page 3).



**Fig. 1**

Open the box of the WASPT device. Connect telemetry lines RS-485 A and B to connector J9 (WASPT board) as described in the relative manual. If the receiver is connected to one of the head communication channels RS-485, the line must be terminated (SW8 column, Tab. 1, page 3). Insert the DTWRX board in the specific J8 housing and close the box of the WASPT device.



**Fig. 2**

Supply power to the device, checking that the controls function correctly from the start.

## 7 Configuration

DIP SWITCH CONFIGURATION (DS1)									
Description		SW 1	SW 2	SW 3	SW 4	SW 5	SW 6	SW 7	SW 8
Address	Not available	OFF	OFF	OFF	OFF	OFF	–	–	–
	1	ON	OFF	OFF	OFF	OFF	–	–	–
	2	OFF	ON	OFF	OFF	OFF	–	–	–
	3	ON	ON	OFF	OFF	OFF	–	–	–
	...	...	...	...	...	...	–	–	–
	31	ON	ON	ON	ON	ON	–	–	–
Protocol and baud rate	VIDEOTEC MACRO 9600	–	–	–	–	–	OFF	OFF	–
	VIDEOTEC MACRO 38400	–	–	–	–	–	ON	OFF	–
	PELCO D 2400	–	–	–	–	–	OFF	ON	–
	PELCO D 9600	–	–	–	–	–	ON	ON	–
RS-485 line termination	Line terminated	–	–	–	–	–	–	–	ON
	Line not terminated	–	–	–	–	–	–	–	OFF

Tab. 1

## 8 Instructions for normal operation

### 8.1 Wiper/Washer commands

If DCJ and DCT keyboards with VIDEOTEC MACRO protocol are used, use the WIPER/WASHER buttons. Pressing these buttons will activate the relative function, while releasing them will stop execution. For further information, refer to the manual of the keyboard in use.

For the devices that communicate via the PELCO D protocol please refer to the relative table.

WIPER/WASHER COMMANDS (PELCO D)	
Action	Command
Wiper Start	Save Preset 85
	Aux 3 ON
Wiper Stop	Save Preset 86
	Aux 3 OFF
Washer Start	Save Preset 87
	Aux 4 ON
Washer Stop	Save Preset 97
	Aux 4 OFF

Tab. 2

## 9 Disposal of waste materials

The European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE) mandates that these devices should not be disposed of in the normal flow of municipal solid waste, but they should be collected separately in order to optimize the recovery stream and recycling of the materials that they contain and to reduce the impact on human health and the environment due to the presence of potentially hazardous substances.



The symbol of the crossed out bin is marked on all products to remember this.

The waste may be delivered to appropriate collection centres, or may be delivered free of charge to the distributor where you purchased the equipment at the time of purchase of a new equivalent or without obligation to a new purchase for equipment with size smaller than 25cm . For more information on proper disposal of these devices, you can contact the responsible public service.

## 10 Technical data

### 10.1 General

2 functions: WIPER, WASHER  
31 selectable addresses through DIP switch  
Serial input RS-485  
2 status LED: Stand-by and receiver control

### 10.2 Mechanical

Dimensions: 43x56x13mm (1.7x2.2x0.51in) Unit weight: 0.02kg

### 10.3 Electrical

Power consumption: 0.5W

### 10.4 Serial communications

Half duplex RS-485 serial interface for keypad telemetry data reception (maximum distance 1200m/3940ft) and from SM matrix range (maximum distance 1200m/3940ft) Protocols:

- PELCO D (2400, 9600 baud)
- VIDEOTEC MACRO (9600, 38400 baud)

### 10.5 Environment

For installation indoors and outdoors Operating temperature: from -25°C up to +60°C

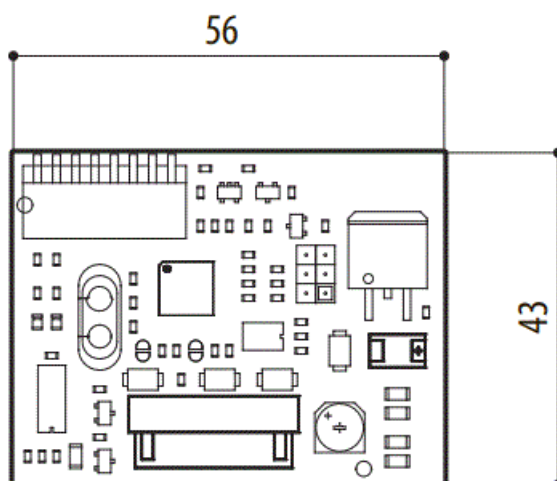
### 10.6 Certifications

Electrical safety (CE): EN60950-1, EN62368-1 Electromagnetic compatibility (CE): EN50130-4, EN61000-6-3, FCC Part 15 (Class B) EAC certification

## 11 Technical drawings



**The dimensions of the drawings are in millimetres.**



**Fig. 3** DTWRX.



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## Documents / Resources

	<p><a href="#">VIDEOTEC DTWRX Telemetry Data Receiver for Wiper and Washer Remote Control</a> [pdf]   Instruction Manual</p> <p>DTWRX, Telemetry Data Receiver for Wiper and Washer Remote Control, DTWRX Telemetry Data Receiver, Telemetry Data Receiver, Data Receiver, Receiver, DTWRX Telemetry Data Receiver for Wiper and Washer Remote Control, Data Receiver for Wiper and Washer Remote Control, Receiver for Wiper and Washer Remote Control</p>
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## References

-  [Video Security Products | Videotec](#)