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WARRANTY CARD

\$1

The "ProTech" company hereby issues a Warranty Card for a device with a trade name

"DigiTIMER V1 / V2 / V3".

\$2

The device is covered by a 12-month warranty from the time of sale

\$3

The manufacturer of the device, the company "ProTech", provides replacement of the defective device for new ones within the full warranty period.

\$4

This Card is issued for each device with the serial number on the security seal placed on the device. Breaking the warranty seal will void the warranty.

\$5

The manufacturer undertakes to deliver a new or repaired device within 14 working days (for Poland region) from accepting the defective device.

\$6

Each device reported as defective will be subject to inspection in order to determine the cause of the damage. In the event of damage resulting from improper installation or use of the device contrary to its intended use, the warranty service will not be respected.

Sale date:			
Serial number:			
Manufacture:			
Software version:			
COMMENTS:			
Set:	GREEN	RED	BLUE
	TRIGG	RANGES	KEY
	12V	24V	230VAC
	LACQUER	ESD	RELAY
STAMP AND SIGNATURE OF THE SELLER			

DEVICE INSTALLATION MANUAL

SIGNALS ON THE BACK BLOCK CONNECTION:

- 1: POWER SUPPLY - POWER SUPPLY FROM 10 ... 12V.D.C. GROUND (GND)
- 2: POWER SUPPLY - POWER SUPPLY FROM 10 ... 12V.D.C. + FEED (+ VCC)
- 3: INTERNAL RELAY CONTACT 1.N.O., LOAD 8A / 230V.A.C
- 4: INTERNAL RELAY CONTACT 2.N.O., LOAD 8A / 230V.A.C
- 5: TRIGGER 1 / COUNTDOWN START, PIN # 1 (OPTION)*
- 6: TRIGGER 2 / COUNTDOWN START, PIN # 2 (OPTION)*

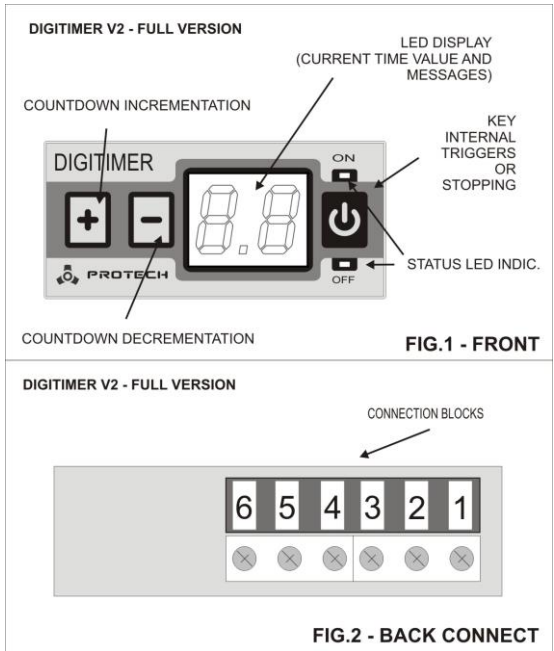
* - USE NO CIRCULAR CONTACT N.O.
(NOT ELSEWHERE CONNECTED)

CONNECTION & START-UP:

1. OUTLET ALL USED CABLES VIA HOLE IN THE BOARD
2. CONNECT THE POWER SUPPLY AND THE CONTROL CIRCUIT TO THE BLOCK DIGITIMER CONTROLLER
3. CONNECT OPTIONAL TRIGG SWITCH (N.O. TO THE BACK BLOCK
4. TURN ON THE POWER - THE DEVICE SHOULD LIGHT UP ":-" LEDS ON THE FRONT PANEL.
5. DIGITIMER, READOUTS VALUE FROM THE NON-VOLATILE MEMORY LAST SET TIME AND SHOW IT ON LED
6. THE KEYS "+" & "-" (DECREMENT AND INCREMENT VALUE OF TIME SET THE REQUIRED TIME ON THE CONTACT OF THE RELAY IN THE DEVICE THE DIGITIMER IS TO BE SHORTENED
7. PRESSING THE CYCLE KEY (INTERNAL TRIGGER IN DIGITIMER V1 / V3 OR BY SHORT THE EXTERNAL TRIGGER PIN (DIGITIMER V2 / V3) THE DEVICE SHOULD START THE TASKED COUNTDOWN TIME AT THE SAME TIME SHORTING THE RELAY INTERNAL CONTACT. AFTER SET TIME IS OVER, CONTACT IT WILL UNSHORT AND THE DEVICE WILL RESTORE LAST SETTING TIME, AND IT WILL WAIT FOR ANOTHER RELEASE START / TRIGG CYCLE.

PANEL LED DURING COUNTDOWN MAY FLASH WITHIN 5 SECOND OF END PERIOD LED INDICATING THE ACTIVATION OF THE RELAY LIGHTS WHEN IT IS SHUTDOWN (ACTIVE). FOR DIGITIMER V1 (SIMPLIFIED VERSION) LEDS ARE NOT EXISTING

8. AFTER CHECKING THE OPERATION, ROLL THE HOUSING INTO THE HOLE ON THE BOARD UNTIL THE LOCKINGS IN THE HOUSING LOCKED (IN THE CASE OF SCREW FASTENING, RETRACT THE HOUSING DEVICES INTO THE HOLE IN THE BOARD, THEN INSERT THE BLOCKS FASTENING IN THE APPROPRIATE HOLES ON THE SIDES OF THE HOUSING AND TIGHTEN THE SET BOLTS). WHEN PLACING THE DEVICE DO NOT PRESS ON THE FRONT COVER PANEL BUT ON THE EDGES OF THE CASING.



CONFIGURATION OF THE RANGE AND OPERATING MODE OF THE RELAY:

1. WHEN SWITCHED ON, WHILE SHOWING DASHES ON THE LED DISPLAY (":-") PRESS THE "+" KEY - THEN RELEASE IT AND WAIT FOR A WORKING REPORT. THE "SE" MESSAGE INDICATES THE ACTIVE SECONDS RANGE OF WORK (TIMER WILL WORK IN THE RANGE OF 01-99 SECONDS). CHANGES TO THE MINUTE RANGE CAN BE PERFORMED BY PRESSING THE "-" KEY - THE REPORT TO THE "m" WILL BE CHANGED - WORKING WITHIN 0 ... 99 MINUTES. THE CHANGE WILL BE CONFIRMED AND STORED WHEN YOU PRESS THE INTERNAL TRIGG KEY ON THE FRONT PANEL (KEY NEAR THE LED DIODES, ON THE RIGHT IN THE FRONT SIDE OF DEVICE). IN THE "s3" SOFTWARE VERSION, IT IS ALSO POSSIBLE TO CONFIGURE THE HOUR RANGE FROM 0-24 HOURS. THE SAME PERFORMANCE IS THE SECOND-TO-MINUTE CHANGE IN THE ABOVE. THE HOUR RANGE IS DISPLAYED WITH THE SYMBOL "h".
2. WHEN SWITCHED ON, WHILE SHOWING DASHES ON THE LED DISPLAY (":-") PRESS THE "-" KEY - THEN RELEASE IT AND WAIT FOR THE REPORT ON THE RELAY'S WORKING MODE. "N" MESSAGE NOTICES ABOUT THE ACTIVE "NORMAL OPEN" MODE (THE TIMER WILL HAVE THE RELAY CONTACT DURING THE ACTIVATED COUNTDOWN), CHANGES TO THE "NORMALLY SHORTED" MODE CAN BE DONE BY PRESSING THE "+" KEY - THE REPORT TO "nc" WILL BE CHANGED - WORKING WITH A CLOSED RELAY CONTACT - OPENING WILL BE DURING THE ACTIVE COUNT TIME. THE CONTACT IN THIS MODE WILL BE CLOSED AFTER THE DEVICE START UP, SO IT IS NECESSARY FOR THE DEVICE TO BE POWERED. CONFIRMATION OF THE CHANGE, MEMORIZATION AND THE WORK CYCLE WILL COMPLETE WHEN THE INTERNAL TRIGGER KEY IS PRESSED ON THE FRONT PANEL (KEY NEAR THE LEDS).
3. SETTING A VALUE FOR THE COUNTDOWN TIME REMEMBER THIS VALUE - THE DEVICE REMEMBERS THIS SETTING AND WILL BE RECALLED AFTER EVERY START-UP, UNTIL CHANGING THE "+" OR "-" KEYS.
4. DEPENDING ON THE SOFTWARE VERSION, AT THE LAST 5 SECONDS, THE DEVICE SIGNALS WITH RHYTHMIC FAST BLINKING OF THE LED CONTROLS ON THE FRONT PANEL WITH ENDING TIME. THIS IS ONLY A HELPFUL FUNCTION TO COMMUNICATE TO THE SERVICE ABOUT THE END OF THE COUNT NEXT. IF THE DEVICE IS EQUIPPED WITH AN INTERNAL ACOUSTIC SIREN, IT WILL ALSO GENERATE SHORT BEEPS AT THE END OF THE TIME.
5. IF THE SET TIME IS LESS THAN THE UNITY IN THE SELECTED TIME SCOPE, THEN TIMER (TO RELIABLE INFORMATION ABOUT THE REMAINING TIME) AUTOMATICALLY, IT WILL SHOW THE REMAINING TIME IN A SMALLER UNIT, E.G. DURING MINUTE OPERATION, IF SET FOR E.G. 10 MINUTES AND THE DEVICE COUNTDOWN 9 MINUTES, THE REMAINING LAST MINUTE WILL COUNT DOWN ON THE LED DISPLAY IN SECONDS MODE (59 ... 58 ... 57 ... ETC) TO SHOW HOW MUCH FROM THE LAST MINUTE LEFT MORE SECONDS.
6. REGARDLESS OF TIMER START, IT ALSO CHANGES ITS DOT STATE ON THE UNIT DISPLAY EVERY SECOND, SIGNING THE CORRECT WORK OF THE INTERNAL TIME PATTERN. THIS IS ONLY INFORMATION ON THE CORRECT COUNT OF INDIVIDUAL SECONDS.

IF THE DEVICE DOES NOT WORK:

1. CHECK THE PRESENCE OF THE POWER SUPPLY AND THE VALUE OF THIS VOLTAGE. IT SHOULD BE FITTED WITHIN 10 ... 12 VOLT D.C.
2. THE POWER SUPPLY / TRANSFORMER SHOULD PROVIDE A CURRENT OF A MINIMUM OF 100 mA (AT A VOLTAGE OF 10V.D.C.)
3. THE VOLTAGE SHOULD NOT EXCEED THE MAXIMUM VALUE OF 30V OR BE LESS THAN 10V - IN BOTH CASES THE DEVICE WILL NOT OPERATE PROPERLY AND MAY BE DAMAGED.
4. CHECK THAT THE WIRE INSULATION HAS BEEN SUFFICIENTLY REMOVED FROM THE HOSE (AT BACK CONNECTION BLOCK)
5. IF THE DISPLAY SHOWS "E1" / "E2" / "E3", THIS MEANS A PERMANENT SHORT-CIRCUIT OF THE INCREMENTATION / DECREMENTATION / RELEASE TRIGGER KEY (ONLY DIGITIMER V2 VERSION), THE APPLIANCE CANNOT WORK CORRECTLY, REPAIRING IS NECESSARY.

FINAL REMARKS:

DO NOT CONNECT THE RELEASE TO ANY VOLTAGE - A RELEASE MUST BE CARRIED OUT ONLY BY A SEPARATED N.O. CONTACT. TRIGGER PARAMETERS: 5VD.C / 1mA. DIGITAL TIME FILTER SKIP TRIGGER SHORTER THAN 100ms. DEPENDING ON THE DEVICE'S SOFTWARE VERSION, THE TIME MAY VARY. DEVICE DESIGNED FOR INDOOR WORK. IT IS NOT CHEMICALLY PROTECTED AGAINST DEW OR HUMIDITY - THE DEVICE SHOULD BE PROTECTED AGAINST ENVIRONMENTAL FACTORS. EXTREMELY LOW OPERATING TEMPERATURES MAY CAUSE INCOMPATIBLE OPERATION (-20 °C) WHEN OPERATING. THE APPLIANCE CASING MAY BE SLIGHTLY HOT. DO NOT INSTALL THE DEVICE NEAR ELECTROMAGNETIC INTERFERENCE, MAGNETIC FIELDS OR RADIO EMISSIONS. INTERFERENCE GENERATED BY AN INCORRECTLY CIRCUIT MAY CAUSE UNEXPECTED BEHAVIOR OF THE DEVICE FIRMWARE. DEVICE DESIGNED TO BE INCLUDED IN OTHER MACHINES AND ACCORDING TO THEM, TESTED AS ONE MACHINE.