

# **Every part matters**

EN

## Instruction Manual RS Pro 35 x 77mm Digital Timer Stock Number: 124-1077, 124-1078

Please read this document carefully before using this product. The guarantee will be invalidated if the device is damaged by not following instructions detailed in the manual. The company shall not be responsible for any damage or losses however caused, which may be experienced as a result of the installation or use of this product.

- \* 77 x 35mm sized.
- \* Dual contact output for timing control.
- \* External start, reset, and gate inputs.
- \* Hours minutes and minutes seconds indications can be selected.
- \* Scale 0:01 .... 99:59 minutes 0:01 .... 99:59 hours
- \* Time increasing and decrement steps can be adjusted.
- \* Counting in downward direction.
- \* Start and stop process can be controlled by the front panel.
- \* 8 different warning tones.
- \* Upper and lower limits can be adjusted to setpoint value.

R<sub>8</sub>HS Compliant

\* CE marked according to European Norms.



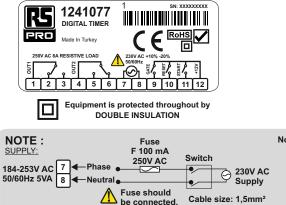
Part Code	Supply Voltage	Number Outputs
124-1077	230V ac	2x Relays
124-1078	24V ac/dc	2x Relays

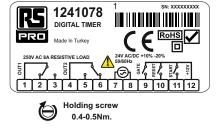
### CONNECTION DIAGRAM



**1241077 & 1241078** is intended for installation within control panels. Make sure that the device is used only for intended purpose. The shielding must be grounded on the instrument side. During an installation, all of the cables that are connected to the device must be free of electrical power. The device must be protected against inadmissible humidity, vibrations, severe soiling. Make sure that the operation temperature is not exceeded. All input and output lines that are not connected to

the supply network must be laid out as shielded and twisted cables. These cables should not be close to the power cables or components. The installation and electrical connections must be carried out by a qualified staff and must be according to the relevant locally applicable regulations.





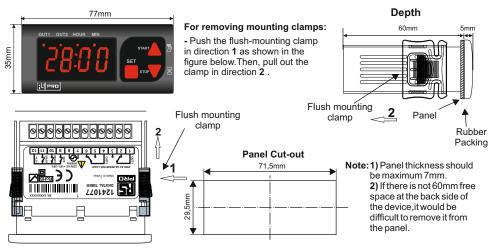
Note 1) Mains supply cords shall meet the requirements of IEC 60227 or IEC 60245.
2) In accordance with the safety regulations, the power supply switch shall bring the identification of the relevant instrument and it should be easily accessible by the operator.

### **TECHNICAL SPECIFICATIONS**

ENVIRONMENTAL CONDITIONS				
Ambient/Storage temperature 0 +50 / °C -25 +70 °C				
Relative Humidity	Max. humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C.			
Protection Class	According to EN60529; Front panel: IP65 Rear panel : IP20			
Height	Max. 2000m			
Do not use the device in locations subject to corrosive and flammable gasses.				

ELECTRICAL CHARAC				
Supply	230V AC ±%10, 50/60Hz or 24V AC/DC ±%10, 50/60Hz			
Power Consumption	Max. 7VA			
Wiring	2.5mm <sup>2</sup> screw-terminal			
Scale	Selectable 99:59 min. or hour.			
Sensitivity	1 second.			
Time Accuracy	±%1			
Indicator	4 digits, 12.5mm, 7 segment red LED			
EMC	EN 61326-1: 2013 (Performance criterion B is satisfied for EN 61000-4-3)			
Safety Requirements	EN 61010-1: 2010 (Pollution degree 2, overvoltage category II)			
OUTPUT				
Out	2 Relays: 250V AC, 8A (for resistive load), NO and NC control output.			
Life Expectancy for Relay	30.000.000 Switching for no-load operation; 300.000 switching for 8A resistive load at 250VAC.			
START INPUT				
Input Type	Mechanical contact (Minimum = 50ms)			
RESET INPUT				
Input Type	Mechanical contact (Minimum = 50ms)			
GATE INPUT				
Input Type	Mechanical contact (Minimum = 50ms)			
HOUSING				
Housing Type	Suitable for flush-panel mounting according to DIN 43 700.			
Dimensions	W77xH35xD71mm			
Weight	Approx. 198g (After packing)			
Enclosure Materials	Self extinguishing plastics			

#### Dimensions





 OUT1 LED
 : Specifies the output OUT1.

 OUT2 LED
 : Specifies the output OUT2.

 HOUR
 LED
 : Selected time unit is HOUR.

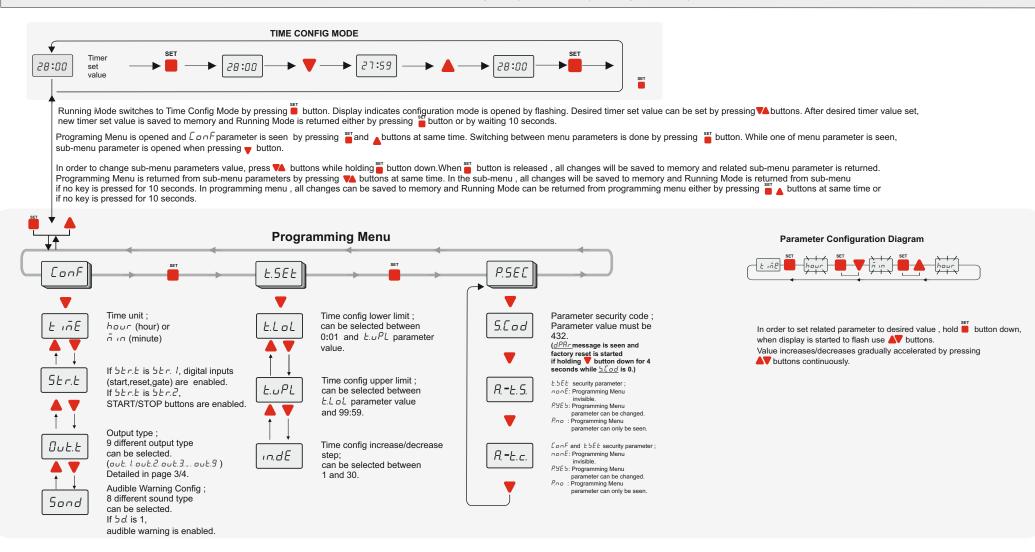
 MIN
 LED
 : Selected time unit is MINUTE.

SET

Timer value can be set in Running Mode , Parameter values can be set in Programming Mode and newly assigned parameter values can be saved . After parameter values are changed , new values are saved to memory and Running Mode is returned either by pressing  $\stackrel{\text{set}}{=}$  button or by waiting 10 seconds.

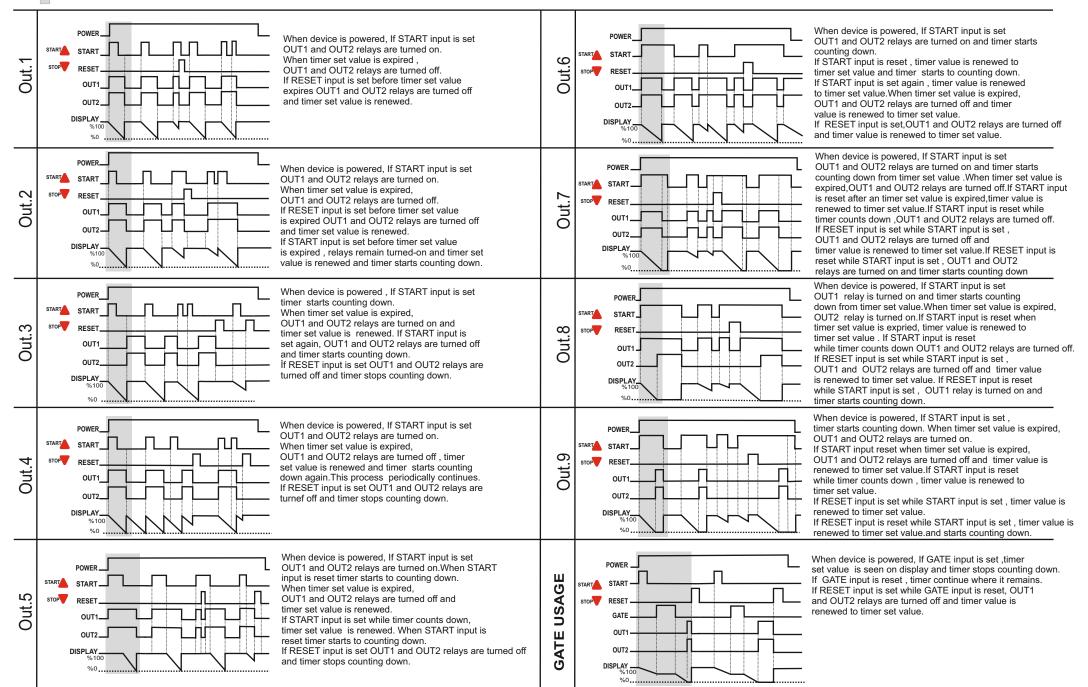
Timer is started by pressing ▲ button for 1 second , when 5 tr.2 is selected (Except,either parameter or time set value changing). Menu parameters can be accessed in Programming Mode. Parameter set values can be increased. Timer set value can be increased in Time Config Mode. Timer set value increases gradually accelerated by pressing continuously.

Timer and audible warning are stopped by pressing V button for 1 second. when っとっこ is selected (Except,either parameter or time set value changing). Menu parameters can be accessed in Programming mode. Parameter set values can be decreased. Timer set value can be decreased in Time Config Mode. Timer set value decreases gradually accelerated by pressing continuously.



#### 1241077 & 1241078 DIGITAL TIMER OUTPUT TYPES

NOTE : Selected area indicates the moment of power-up, if the external "START" input is active.



### 1241077 & 1241078 DIGITAL TIMER PARAMETERS CONFIGURATION PARAMETERS

Parameter Name	Functional Specification	Min.	Max.	Unit	Factory Settings			
٤ יה	Device time config	00 <b>:</b> 0 I	99 <b>:</b> 59	hr:min min:sec				
Str.t	Device input control parameter	SEr. I	Str.2		Str. 1			
Out.t	Device output control parameter	0 u E. 1	out.9		Dut. I			
Sond	Device audible warning control parameter	5 d. l	5 <i>d</i> .8		5 d. 1			
TIMER CONFIGURATION PARAMETERS								
t.LoL	Time config lower limit define parameter	00:0 I	99:59		00:0 I			
E.uPL	Time config upper limit define parameter	00:02	99:59		99 <b>:</b> 59			
ın.dE	Time config increase/decrease coefficient parameter							
SECURITY PARAMETERS								
5.C o d	Security code parameter	0	9999		0			
R. Ł. S.	Time config security parameter				<i>Р.</i> УЕ S			
R. <del>L</del> .c.	Menu security parameter				Р.УЕ S			

Note 1: If 5tr.t selected 5tr. I, Control is provided with START - RESET - GATE inputs.

- Note 2: If 5 ∠ r. ∠ selected 5 ∠ r. ∠, Control is provided with device front panel START (▲) STOP (♥) buttons.
- **Note 3:** GATE input can be used for all 5tr.t and 0ut.t types.
- Note 4: When 5*E r*.*E* parameter switched from 5*E r*. *I* to 5*E r*.*2*, device continue to work with present *□uE*.*E* output setting. Timer can be stopped with device front panel STOP(♥) button in case of need.
- **Note 5:** Cases in **Note 4** also valid for 5*Lr*.*L* parameter switched from 5*Lr*.*2* to 5*Lr*. *I*, digital RESET input can be used instead of STOP button.
- Note 6: In Running Mode, if the a and ▼ keys are pressed together, revision number appears on display. (In order to show the revision number, 5 ± r. ± parameter must be set to 5 ± r. ℓ in LonF menu).