FAST 03 & FAST 03 PRO PLUS

Quick Manual



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STRATEL SDN BHD

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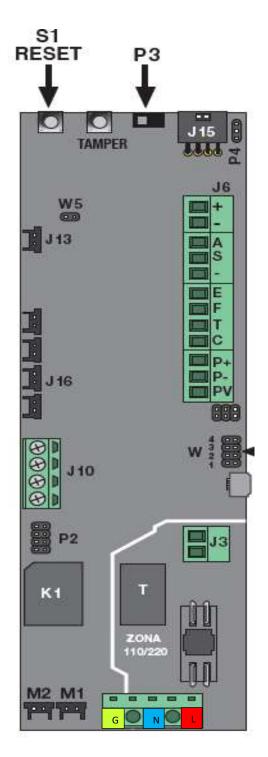
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1) Specifications

	FAST 03	FAST 03 PRO PLUS
GENERAL SPECIFICATIONS		
Weight of machine only	10 kg	11 kg
Weight with cylinders and battery	12 kg	13 kg
Dimension of machine	26.5x23.0xh34.5	27.5x23.0xh44.0
Work time without main power	2.5 hours	2.5 hours
Heating time	About 45 mins	About 40 mins
Vertical & horizontal mounting (cylinder dependent)	Yes	Yes
Nozzle tamper	Yes	Yes
FOG GENERATOR		
Fog emission in a single shot (zero visibility)	200 m ³	260 m ³
Fog emission in a single shot (up to 1.5m visibility)	$300 m^3$	$400 m^3$
Max. seconds of fog in a single shot	20 seconds	20 seconds
Total seconds of fog	30 seconds	45 seconds
Total emission capacity	450 m^3	900 m^3
No. of cylinder cannisters	1	1
Cylinders capacity	400 ml	600 ml
Amount of liquid used per second of shoot	13 ml	13 ml
Cylinder model	RFC400V/H	RFC600V/H
ELECTRICAL SPECIFICATIONS		
Power supply	220 - 240V	220 - 240V
Average Power Consumption	30 - 50W	30 - 50W
Max power on heating system	320W	320W
Maximum current consumption at 12V during shoot	250mA	250mA
Maximum current consumption at 12V in stand-by	60mA	60mA
Battery type	6 x AA alkaline (not rechargeable)	2AH 12V SLA (rechargeable)
Average battery lifetime	12 months 10 shoots	24 months
Door anti-tampering	Micro switch	Micro switch
Anti-tear off/Anti-shift	Accelerometer	Accelerometer
Wired inputs for arming & shooting	Yes	Yes
Validation input (PIR)	No	Yes
Anti-robbery input	Yes	Yes
Empty cannister output	Yes	Yes
Tamper output	Yes	Yes
Fault indication output	Yes	Yes
Confirmation output	No	Yes

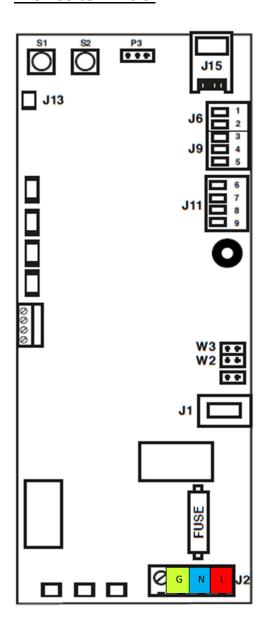
2) Circuit board configuration settings

FAST 03 PRO PLUS terminals:



S1	SET/RESET	
P1	BDM connector for firmware	
P2	Connector for expansion board	
Р3	Functional jumper	
J15	Anti-robbery inputs	
J6	+	+12VDC input
	-	-12VDC input
	А	Arm input
	S	Shoot input
	-	GND input
	Е	Empty output
	F	Fault output
	Т	Tamper output
	С	Confirmation output
	P+	+12VDC PIR supply
		(300mA)
	P-	-12VDC PIR supply
		(300mA)
	PV	Validation input
W1	Serial port P2 activation	
W2	Anti-robbery trigger	
W3	Service mode	
W4	Validation trigger	
W5	Rechargeable battery activation	

FAST 03 terminals:

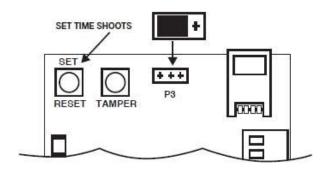


		1	
S1	SET/RESET		
S2	Door tamper]	
P3	Functional jumper		
J12	Connector for	Ī	
	battery pack		
J15	Anti-robbery inputs		
J6	1	+12VDC input	
	2	-12VDC input	
	3	Arm input	
	4	Shoot input	
	5	GND input	
	6	Empty output	
	7	Fault output	
	8	Tamper output	
	9	GND input	
W2	Anti-robbery trigger		
W3	Service mode		
J2	AC source inputs		

LED indicator



3) Fog emission time settings



Step 1: move the jumper towards the left position P3 (closer to buttons S1/S2)

Step 2: holding down the button S1 "SET", 6 LEDs on the front will flash and each flash is equivalent to one second. If you press the button again, the shooting time is not added to the one previously set, but will restart from zero.

Step 3: after setting, move the jumper back towards the right position P3

Shooting table for FAST 03

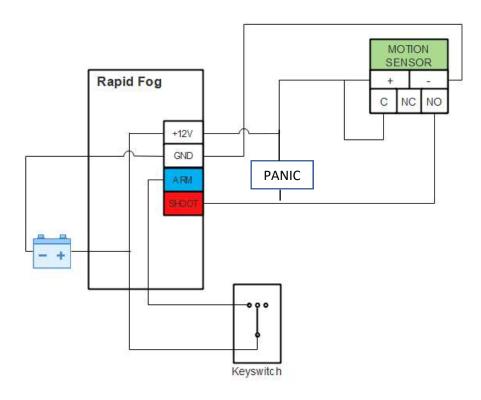
m^3 to protect	Seconds of emission	m^3 to protect	Seconds of emission
10 – 15	1	110 – 165	11
20 – 30	2	120 – 180	12
30 – 45	3	130 – 195	13
40 – 60	4	140 – 210	14
50 – 75	5	150 – 225	15
60 – 90	6	160 -240	16
70 – 105	7	170 – 255	17
80 – 120	8	180 – 270	18
90 – 135	9	190 – 285	19
100 – 150	10	200 – 300	20

Shooting table for FAST 03 PRO PLUS

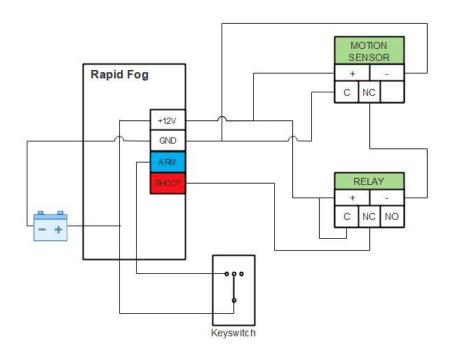
m^3 to protect	Seconds of emission	m^3 to protect	Seconds of emission
13 – 20	1	143 – 220	11
26 – 40	2	156 – 240	12
39 – 60	3	169 – 260	13
52 – 80	4	182 – 280	14
65 – 100	5	195 – 300	15
78 – 120	6	208 – 320	16
91 – 140	7	221 – 340	17
104 – 160	8	234 – 360	18
117 – 180	9	247 – 380	19
130 – 200	10	260 – 400	20

4) Stand-alone Wiring diagrams

4.1 Key switch + Panic button + PIR connection (NO)

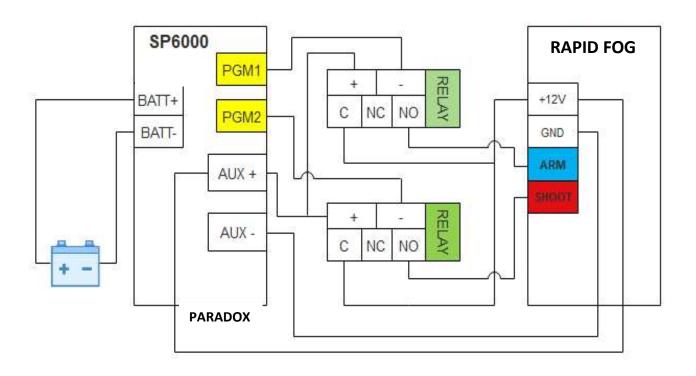


4.2 Key switch + Panic button + PIR connection (NC)



5) Integration with Paradox alarm panels

5.1 RF Arm & Shoot Inputs with battery backup



When the alarm panel is armed, exit delay of 20 seconds begins and PGM1 is activated. PGM1 activation arms the RF device, indicated by the blue frontal LED.

SP/MG Programming:

PGM 1 (ARM input)

Section 220, enter [02 14 99]

Section 221, enter [02 11 99]

Section 281, enter [000]

PGM2 (SHOOT trigger)

Section 222, enter [02 06 99]

Section 223, enter [00 00 00]

Section 261, off [1]

Section 282, enter [002]

EXIT DELAY (20 secs)

Section 745, enter [020]

EVO Programming

PGM1 (ARM input)

Section [0901], enter (Panel S/N) enter (001)

- 1. enter [010]
- 2. enter [000]
- 3. enter [001]
- 4. enter [255]
- 5. enter [014]
- 6. enter [255]
- 7. enter [000]
- 8. enter [000]
- 9. enter [000]
- 10. turn of all; PGM options

PGM2 (SHOOT input)

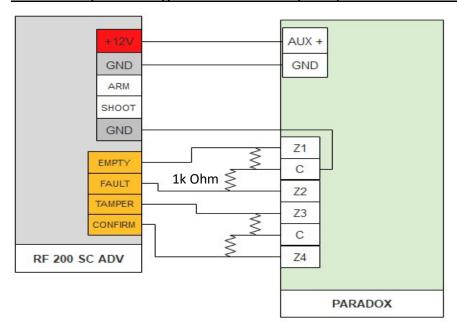
Section [0902], enter (Panel S/N) enter (002)

- 1. enter [024]
- 2. enter [255]
- 3. enter [000]
- 4. enter [000]
- 5. enter [016]
- 6. enter [255]
- 7. enter [000]
- 8. enter [000]
- 9. enter [002]; Timer
- 10. turn of all; PGM options

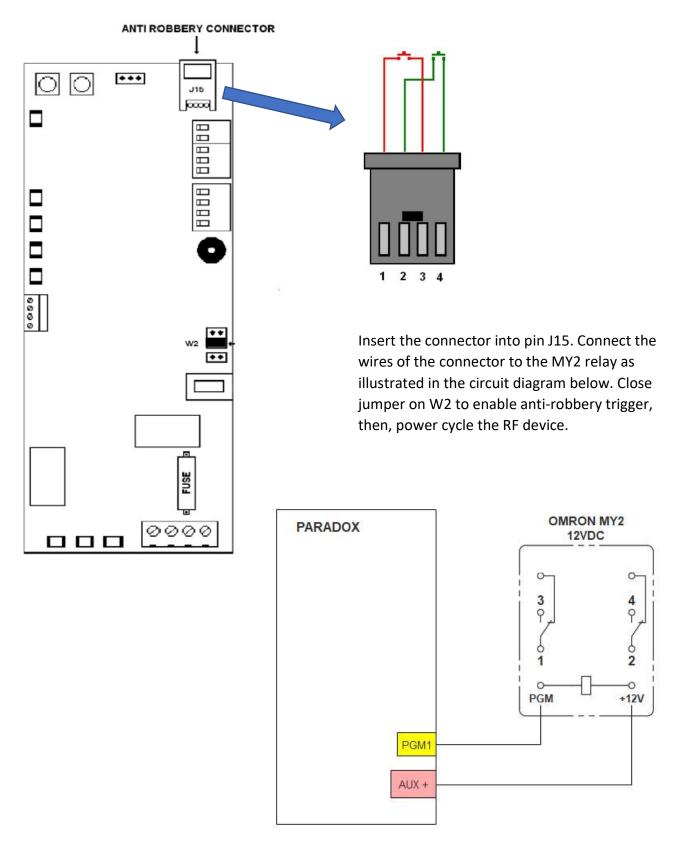
EXIT DELAY (20 secs)

Section [3108], enter [020]

5.2 RF Output Wiring to Panel Zone inputs (FAST 03 PRO PLUS ONLY)



5.3 Anti-robbery



SP/MG Programming:

PGM activated for 2 seconds once alarm is triggered.

PGM 1

Section 220, enter [02 06 99]

Section 221, enter [00 00 00]

Section 261, off [1]

Section 281, enter [002]

PGM2

Section 222, enter [02 06 99]

Section 223, enter [00 00 00]

Section 26, off [1]

Section 282, enter [002]

EVO Programming

PGM activated for 2 seconds once alarm is triggered.

PGM1

Section [0901], enter (Panel S/N) enter (001)

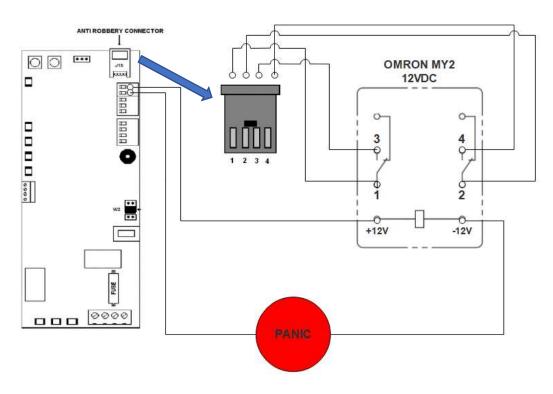
- 1. enter [024]
- 2. enter [255]
- 3. enter [000]
- 4. enter [000]
- 5. enter [000]
- 6. enter [000]
- 7. enter [000]
- 8. enter [000]
- 9. enter [002]; Timer
- 10. turn of all; PGM options

PGM2

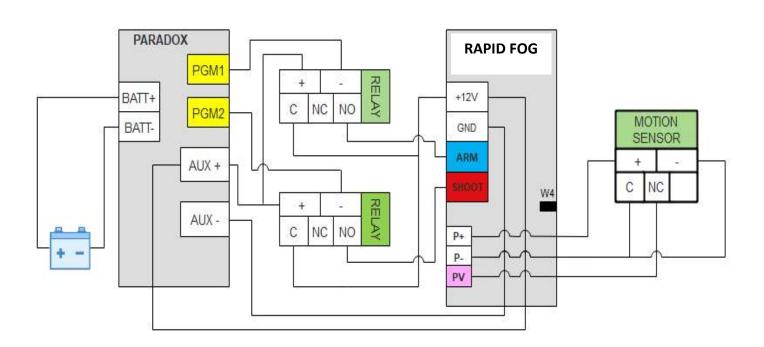
Section [0902], enter (Panel S/N) enter (002)

- 1. enter [024]
- 2. enter [255]
- 3. enter [000]
- 4. enter [000]
- 5. enter [000]
- 6. enter [000]
- 7. enter [000]
- 8. enter [000]
- 9. enter [002]; Timer
- 10. turn of all; PGM options

6) Anti-robbery Function (Stand-alone)



7) Validation Input



8) Maintenance

RF generators do not require special care. However, it is recommended the support of qualified and authorized personnel for periodic annual monitoring, taking into account the following:

- The charged cylinders have a (predetermined duration) of 3 years' time limit.
- The expiry date is printed at the top of the cylinder.
- Annually verify the functioning of the cylinder plates.
- Check the air tightness of the circuit and the switch functioning.
- The efficiency of the batteries is crucial to guarantee the operation
- We suggest to send back to your reseller the cylinders that are expired but not empty
- Empty cylinders, in aluminium or steel, can be recycled as a common can.

UP / DOWN CYLINDER PLATES – SCROLLING TEST

The scrolling check of the cylinder plate is performed by activating the motors without cylinder, but with batteries necessarily connected, with the following sequence:

- 1) Close the jumper W3 thus putting the card in "service mode"
- 2) Make sure that the jumper P3 is in the right-side position
- 3) Hold down the button S1,

the buzzer beeps and then this sequence begins:

- Motor 1 down
- Motor 1 up
- Release the button S1 (in this situation you can hear the noise of the Nozzle tamper pump and a slight smoke may exit from the nozzle)
- 4) Remove the jumper W3
- 5) With a slight finger pressure on the cylinder plate of the motor, push the button S1 again

If you only want to lower a cylinder plate after an activation without the cylinder occurred, simply perform step number 5.

9) Defect/Fault Indication and possible solution

The 3 frontal LED are flashing	The tension on +12V input is	Check the external power
and the buzzer emits 1 beep	too low or too high	supply of the alarm unit
per minute	too ion or too mgm	Supply of the diamit diffe
The buzzer emits 2 beeps per	Low batteries but possible	Replace batteries
minute	shot	Replace Saccines
The buzzer emits 3 beeps per	Low batteries but possible	Replace batteries
minute	shot	Tropingo Sacconies
The buzzer emits 10	Batteries not present	Insert batteries
continuous beeps per minute	Datternes mos process	
остания и сородо на применения	False contact in the battery	Readjust batteries
	case	
	Connector not inserted	Remove and reinsert the
	correctly	connector
	In any case, it is useful to use a	
	of voltage on the battery case. I	• •
	press the reset button and wait	
	performs battery status check e	
	,	,
The machine is armed (BLUE	The front RED LED is on	Cylinder reset has not been
LED on) but doesn't shoot		done. Press the reset button
		Cylinder is empty. Replace
		new cylinder
	The front GREEN LED flashes	The heat exchanger has not
		yet reached the minimum
		temperature of shooting,
		wait for the led to stop
		flashing.
	The machine doesn't shoot	For safety reasons and to
	immediately after arming	avoid false fog emissions
		during power on, when the
		machine is armed, it
		becomes operative only
		after 20 seconds. After this
		time, the emission is
		instantaneous.
	Wiring error	Verify that the alarm, once
		activated has tension on
		connectors of at least 12V
2005	0 10 10 10 10 10 10 10 10 10 10 10 10 10	between GND + SHOOT.
BLUE LED is flashing	Overvoltage power line (240V)	Check if there is a sufficient
		ventilation around the
The least of the second of the	Birth discounting 5	machine.
The buzzer emits a continuous	Disturbance/interference or	In the case of strong
sound	potential differences between	interference (lightning), a
	devices	thermocouple reading error
DILLE and DED LED-	-	can occur. Make a reset.
BLUE and RED LEDs are		In large size plants or with
flashing alternatively		more than one fogging
		system connected with the
		same central, in rare
		situations, it may occur that

		there are potential
		differences between the
		equipment's and it could be
		necessary to uncouple.
	Error in the thermal loop	Possible fault of:
		thermocouple, resistance or
		fuse cable. Do not try to
		repair. Contact supplier for
		assistance.
Impossible to arm the	Wiring error	Check on the terminal with
machine. BLUE LED doesn't		a tester that when the
switch on		alarm system is turned on
		there is a minimum voltage
		of 11V between GND +
		ARM.
Cannot arm, BLUE LED doesn't	Wiring error	Test the terminal if there is
light up		a minimum voltage of 11V
		between GND + ARM when
		the anti-theft system is
		activated.
When you press the reset	The Jumper P3 is in the 'SET'	The shooting time is reset to
cylinder button, you don't hear	position	zero. Set the shoot time
the sound of the buzzer, the		again and move the Jumper
frontal LEDs are flashing but		P3 to the right-side position,
the RED LED does not reset		then press the cylinder reset
		button.
The cylinder does not enter	The plate is raised	Refer to the scrolling test
		section.
The cylinder cannot be	The cylinder is stuck in the	Pressure down gently, and
removed	valve	then pull the cylinder out
Setting the shooting time, the	The Jumper P3 is in the 'RESET'	Move the Jumper P3 to the
buzzer does not sound and the	position (right-side position)	left-side position ('SET') to
LEDs doesn't flash		set the shooting time.
	*	