

USER'S OPERATING MANUAL FOR FAAC+
(Model: FAAC+)



FAAC+
(96 X 96)

SPECIFICATIONS : -

- 1. DISPLAY TYPE** : 16 x 2 Character LCD
- 2. STATUS LED'S** :
 - HEATER** : Heater Control Output Status
 - PURGING/EXHAUST** : Purg / Exhaust Output Status
 - EOC** : End Of Cycle Status
- 3. INPUT**
 - Temperature Input : RTD Pt-100
 - Pressure Input : 4~20mA
 - Resolution : ± 0.1 °C
 - Accuracy : ± 0.3 °C
 - Sampling Time : 125 msec.
 - LWC for Pt-100 : Built in up to 18E max.
 - Digital Filter : 1 to 10 Sec.
- 4. RELAY OUTPUT**
 - Contact type : N/O, COM
 - Contact Rating : 5A @ 250VAC or 30 VDC
 - Life expectancy : > 5,00,000 operations
 - Isolation : Inherent
- 5. SSR DRIVE OUTPUT**
 - Drive Capacity : 12V @ 30mA.
 - Isolation : Non-Isolated.
- 6. FUNCTION**
 - Output 1 : Heater output
 - Output 2 : Purg / Exhaust
 - Output 3 : Alarm Output

 - Control Action : ON-OFF/PID (Select)
- 7. ENVIRONMENTAL**
 - Operating Range : 0 ~50°C, 5~90% Rh
 - Storage Humidity : 95% Rh (Non-condensing)
- 8. POWER SUPPLY**
 - Supply Voltage : 90~270VAC, 50/60Hz.
 - Consumption : 4W Maximum.
- 9. PHYSICAL**
 - Housing : ABS Plastic

INSTALLATION GUIDELINES

1. Prepare the cut-out with proper dimension as shown in figure.
2. Remove clamp from Controller.
3. Push the Timer through panel cut-out and secure the Controller in its place by tightening the side clamp.

SAFETY INSTRUCTION

MECHANICAL

- ❖ Ambient temperature and relative humidity surrounding the Controller must not exceed the maximum specified limits.
- ❖ The Controller in its installed state must be protected against excessive electrostatic or electromagnetic interferences.

ELECTRICAL

- ❖ The Controller must be wired as per wiring diagram & it must comply with local electrical regulation.
- ❖ The Electrical noise generated by switching inductive loads might create momentary Fluctuation in display, latch up, data loss or permanent damage to the instrument. To reduce this use snubber circuit across the load.

PROGRAMMING



Press and Hold SET & UP Key Simultaneously for 3 Sec.

Press & Hold Shift Key for 3 Sec. in Run Mode

Press and Hold SET & DOWN Key Simultaneously for 3 Sec.

Press SET Key Once in Run Mode

Configuration			
Display	Default	Parameter Name	Range
LOCK CODE	15	Lock Code	1 ~ 9999
HIGHER SP LIMIT	135.0	Higher Setpoint Limit	0.0 ~ 150.0°C
PV OFFSET	0.0	Process Value Offset	-25.0 ~ 25.0
INPUT FILTER	1	Input Filter	1 ~ 10
INPUT 2 TYPE	4-20 mA mPARR	Input 2 Type	None, 4~20mA
▲ I/P 2 RESOLUTION	0000	Input 2 Resolution	0000, 000.0, 00.00, 0.000
▲ INPUT 2 OFFSET	0	Input 2 Offset	
▲ INPUT 2 FILTER	1	Input 2 Filter	1 ~ 10
▲ ANALOG I/P LOW	0	Analog Range Low	Enable, Disable
▲ ANALOG I/P HIGH	1000	Analog Range High	Enable, Disable
PRESSURE	ENABLE	Pressure	Enable, Disable
PRESSURE UNIT	KGCM	Unit For Pressure	PSI, KGCM
AUTO TUNE	ENABLE	Auto Tune	Enable, Disable
CONTROL SP	ENABLE	Control Setpoint	Enable, Disable
AIR SP	ENABLE	Air Setpoint	Enable, Disable
EXHAUST SP	ENABLE	Exhaust Setpoint	Enable, Disable
CYCLE END SP	ENABLE	Cycle End Setpoint	Enable, Disable
ALARM SP	ENABLE	High Alarm Deviation Setpoint	Enable, Disable
FAIL SAFE SP	ENABLE	Fail Safe Deviation Setpoint	Enable, Disable
▶ DEVICE 1 ID	1	Device ID Number 1	Toggle, Timer, SP, PR, Auto, IP2
▶ DEVICE 2 ID	2	Device ID Number 2	1 ~ 9999
▶ BAUD RATE	9600	Baud	9600, 19200, 31250, 38400, 76800
▶ PARITY	NONE_0_1	Parity	None_0_1, None_0_2, Odd_0_1, Odd_0_2, Even_0_1, Even_0_2
USER LOCK	15	User Lock	1 ~ 9999

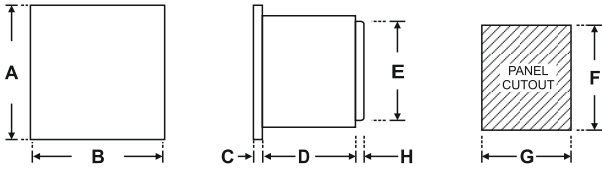
Control List			
Display	Default	Parameter Name	Range
LOCK CODE	15	Lock Code	1 ~ 9999
PROPORTIONAL BAND	15	Proportional Band	0.0 ~ 99.9 °C
◆ INTEGRAL TIME	96	Integral Time	0 ~ 3600 Sec.
◆ DERIVATIVE TIME	24	Derivative Time	0 ~ 3600 Sec.
◆ CYCLE TIME	16.0	Cycle Time	1.0 ~ 100.0 Sec.
⚙️ CNTRL HYSTERISIS	0.2	Control Hysteresis	0.1 ~ 10.0
AIR HYSTERISIS	0.2	Air Hysteresis	0.1 ~ 9.9
HOLD STRATEGY	NONE	Hold Back Strategy	None, Up, Down, Both
SOAK TIME BAND	0.1	Hold Band	0.1 ~ 5.0 Sec.
SOAK TIME DELAY	0	Soak Time Delay	0 ~ 99 Sec.
POWER FAIL	ABORT	Power Fail Recovery Method	Abort, Start, Continue

User List			
Display	Default	Parameter Name	Range
CONTROL SP	0.0	Control Setpoint	0 ~ HSPL
SOAK TIME VALUE	2.0	Soak Time	1 ~ 999
AIR SETPOINT	0.0	Air Setpoint	0 ~ SP
EXHAUST SP	0.0	Exhaust Setpoint	0 ~ HSPL
CYCLE END SP	0.0	Cycle End Setpoint	0 ~ SP
ALARM SP	0.1	High Alarm Deviation Setpoint	0.1 ~ 10.0
FAIL SAFE SP	0.3	Fail Safe Deviation Setpoint	0.3 ~ 20.0

Auto Tunning Mode			
Display	Default	Parameter Name	Range
◆ tUNE	n0	Auto Tunning Mode	Yes, No

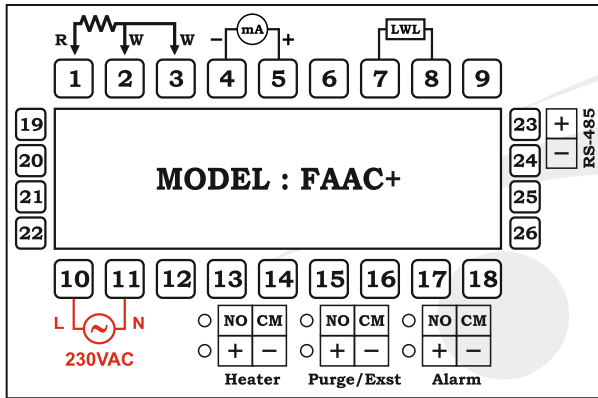
Parameter will display according to below symbols	
▲	Input 2 = 4~20 mA
▶	Factory Set RS-485 given.
◆	PB > 0
⚙️	PB = 0

OVER ALL DIMENSIONS & PANEL CUT OUT (IN MM)



Model \ Dim	A	B	C	D	E	F	G	H
FAAC+	96	96	10	65	89	92	92	9

TERMINAL CONNECTIONS :



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