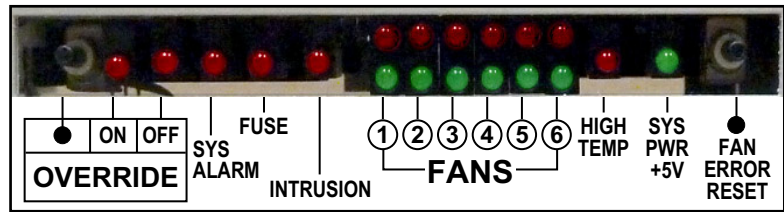# Fan Environmental Control Unit (ECU) Replacement

PN # TFC-MESA246-01
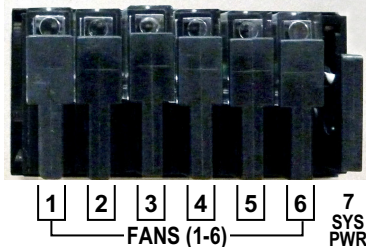
Fan Environmental Control Unit (ECU) Replacement
for Remote Cabinet Sites

(FRONT VIEW)

REPLACE FUSES 1-6 WITH 5.0 AMP GMT FUSE.

REPLACE FUSE 7 WITH $1^{1/3}$ AMP GMT FUSE.

FANS (1-6)   7 SYS PWR

- *Drop-In Replacement for Remote Cabinet (Sites)*
- *Variable Speed Control 2, 4 or 6 Fans*
- *Battery Life Conservation*
- *Heat Exchanger Fan Life Conservation*
- *Reduces Energy Costs*
- *Plug & Play (no programming)*
- *Alarms for Fans, Fuses, High Temps & Intrusion*

Ordering Information:

TFC-MESA246-01   **Fan Environmental Control Unit (ECU) Replacement for Remote Cabinet Sites**
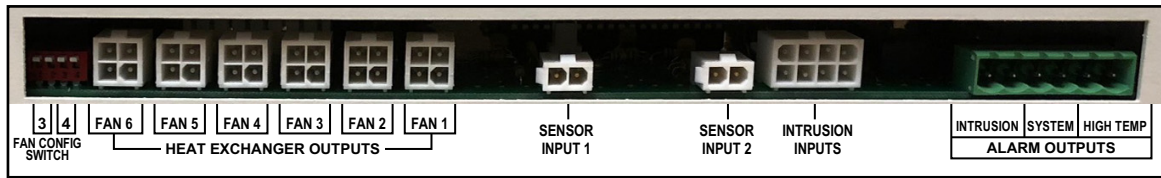*Includes: (2) # TFCS-MESA30-12, Temperature Sensors*

150 Cooper Rd. (F-15)
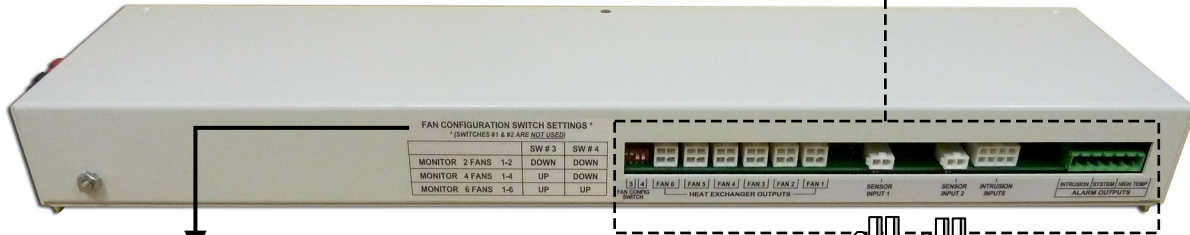W. Berlin, NJ 08091

www.tagcords.com

Telephone: (856) 753-8585
Fax : (856) 768-7645

Telecom Assistance Group

Fan Environmental Control Unit (ECU) Replacement

3	4	FAN 6	FAN 5	FAN 4	FAN 3	FAN 2	FAN 1	SENSOR INPUT 1	SENSOR INPUT 2	INTRUSION INPUTS	INTRUSION	SYSTEM	HIGH TEMP
FAN CONFIG SWITCH		HEAT EXCHANGER OUTPUTS									ALARM OUTPUTS		

(BACK VIEW)

FAN CONFIGURATION SWITCH SETTINGS *
* (SWITCHES #1 && #2 ARE <u>NOT USED</u>)

	SW # 3	SW # 4
MONITOR 2 FANS 1-2	DOWN	DOWN
MONITOR 4 FANS 1-4	UP	DOWN
MONITOR 6 FANS 1-6	UP	UP

PLUG # TFCS-MESA30-12 INTO SENSOR INPUTS

TFCS-MESA30-12

TFCS-MESA30-12

MONITORS THE TEMPERATURE OF THE LEFT SIDE OF THE CABINET

MONITORS THE TEMPERATURE OF THE RIGHT SIDE OF THE CABINET

 # TFCS-MESA30-12
QTY of (2)
Temperature Sensors, (12')
(Supplied)

TFCS-MESA30-12

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Fan Environmental Control Unit (ECU) Replacement

KEY FEATURES:
- Variable Speed for 2, 4 or 6 fans.
- Green/Red LEDs for each fan indicate status.
- Fan alarm reset: clears alarm conditions manually (on-site).
- Override button: turns fans on to 100% or off or returns to automatic.
    Fans return to automatic when cabinet doors are closed.
- Fans will run at full speed & an alarm condition will occur if the system experiences a logic failure or if in override.
- Alarms for fuse failure, fan failure, or -48VDC power loss.

INPUTS:
- Alarms up to 4 intrusion inputs.
- Measures & alarms high temperature condition using 2 external temp sensors.

FAN OUTPUTS:
- Fan 1 – Fan 6: supplies each fan with -48VDC.

ALARM OUTPUTS:
- 1 High Temp: the contacts are wired NO with contact closure alarm.
- 1 Intrusion: the contacts are wired NO with contact closure alarm.
- 1 Fan/Fuse: the contacts are wired NO with contact closure alarm.

FAN SPEED SELECTION:
- Fan speed is determined by the TFC-MESA246-01 based on internal cabinet temperature.

SPECIFICATIONS:

Part #	TFC-MESA246-01
Power	Nominal 48VDC (44 to 56VDC) / 1 amp for Module, fans fused at 5.0 amps
Alarm Outputs (Contact Rating)	60VDC, 0.3amps
Temp Sensors (2)	30K resistance Measures temperatures from -67 to 185°F (-55 to 85ºC)
Ambient Operating Range	40 to 180°F (-40 to 82°C)
Terminals & Connections	All connections are 2 piece type-plug in terminal
Fan Type	Compatible with Variable Speed control fans (Does not work with 2 wire fans)
Dimensions	L 19.1"(486mm), H 1.95"(50mm), D 4.4"(112mm)
Weight	3.5 lbs (1.6 kg)
Warranty	2 Years

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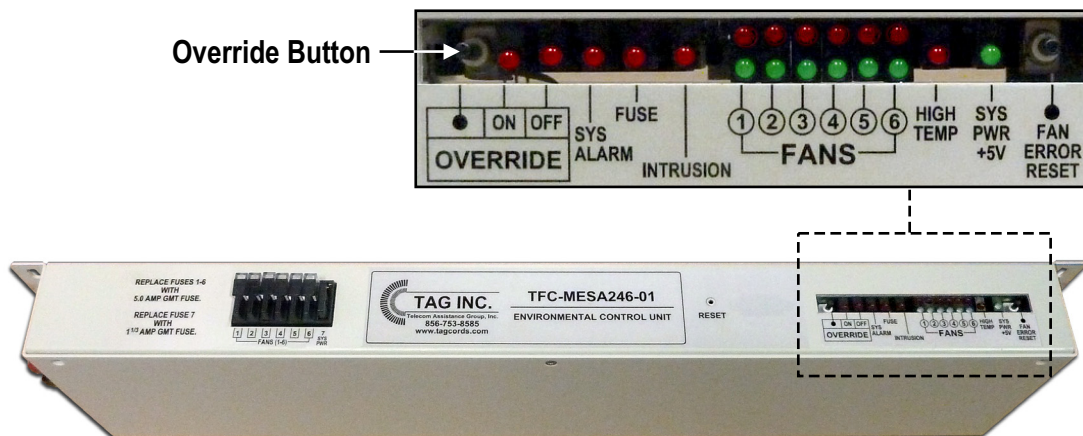
Fan Environmental Control Unit (ECU) Replacement

INSTALLATION NOTES:

The new TAG unit (# TFC-MESA246-01) requires (2) new temperature sensors
(# TFCS-MESA30-12), which are supplied.

DOOR OPERATION NOTES:

- When the door is opened, the fans will go to the SLOWEST speed or stop.

- The RED Intrusion light should be ON.

- If the Override Button is pushed ONCE, the Override light goes ON (fans run slow)
   and green "SYS PWR +5V" light blinks slowly.

- If the Override Button is pushed TWICE, the fan speed will go to MEDIUM
   and green "SYS PWR +5V" light blinks medium.

- If the Override Button is pushed THREE TIMES, the fan speed will to go to HIGH
   and green "SYS PWR +5V" light blinks fast.

FAN CONFIG SWITCHES:

- The switches are numbered
   3 & 4 INSTEAD of 1 & 2.
   (SWITCHES #1 & #2 ARE NOT USED)

- The label is clear about how
   to set them (but 3 & 4 is unusual).

SWITCH LABEL

FAN CONFIGURATION SWITCH SETTINGS * * (SWITCHES #1 & #2 ARE NOT USED)		SW # 3	SW # 4
MONITOR 2 FANS 1-2		DOWN	DOWN
MONITOR 4 FANS 1-4		UP	DOWN
MONITOR 6 FANS 1-6		UP	UP

If you have any questions, Please contact : Email: custsvcs@tagcords.com

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