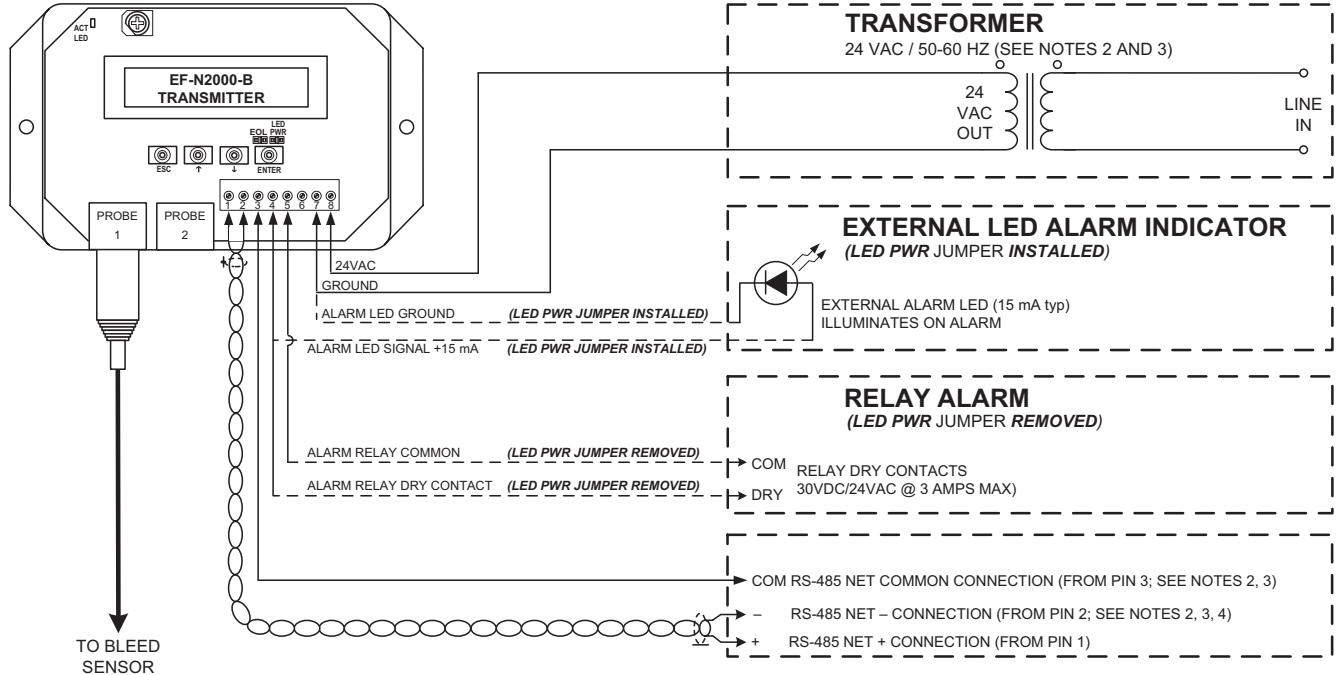




○ EF-N2000-B TYPICAL WIRING DIAGRAM

- | | |
|---------------------------------|-------------------------------|
| LED PWR JUMPER INSTALLED | LED PWR JUMPER REMOVED |
| 1: + RS-485 + CONNECTION | 1: + RS-485 + CONNECTION |
| 2: - RS-485 - CONNECTION | 2: - RS-485 - CONNECTION |
| 3: RS-485 COMMON | 3: RS-485 COMMON |
| 4: ALARM LED ANODE (+15mA) | 4: ALARM RELAY DRY CONTACT |
| 5: NO CONNECTION | 5: ALARM RELAY COMMON |
| 6: BI | 6: BI |
| 7: 24V GROUND | 7: 24V GROUND |
| 8: 24VAC POWER IN | 8: 24VAC POWER IN |



NOTES:

- CONNECT OUTPUT SIGNAL CABLE DRAINS TO EARTH GROUND AT ONE END OF CABLE ONLY.
- EF-N2000 IS A NON-ISOLATED DEVICE USING A HALF-WAVE RECTIFIER ON THE 24VAC POWER INPUT. IF MULTIPLE DEVICES ARE POWERED BY THE SAME TRANSFORMER OUTPUT, ALL GND CONNECTIONS MUST BE COMMON, OR AN ISOLATION TRANSFORMER MUST BE USED TO PREVENT EQUIPMENT DAMAGE.
- ALL DEVICES ON MULTIPLE EF-N2000 INSTALLATIONS WITH A COMMON POWER 24VAC SOURCE MUST BE WIRED IN-PHASE TO THE SAME TERMINALS (PIN 7 TO PIN 7, PIN 8 TO PIN 8).
- RS-485 SHIELDED TWISTED PAIR (STP) WIRING (SUPPLIED BY OTHERS) IS RECOMMENDED FOR NETWORK CONNECTIONS.
- NETWORK CONNECTIONS MUST BE MADE IN A DAISY CHAIN CONFIGURATION. T-CONNECTIONS AND STUBS ARE NOT PERMITTED.
- WHEN EF-N2000 IS WIRED AS THE LAST DEVICE ON A NETWORK, APPLY JUMPER ACROSS EOL JUMPER TERMINALS.

○ EF-N2000-B BACNET OBJECTS AND MODBUS REGISTER MAP

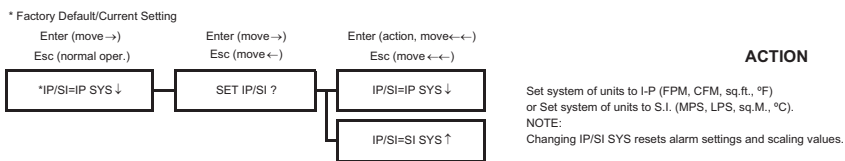
EF-N2000-B BACnet Objects		
Analog Inputs		
Type	ID	Name
Device	EF-N2000	
AI, 1		Airflow
AI, 2		Pressure
AI, 3		Temperature
AI, 4		Alarm Status: 0=No alarm, 1=High Alarm, 2=Low Alarm, 3=Both
Analog Values and Binary Outputs		
AV, 1		Duct Area
AV, 3		Traverse Status: 0=None, 1=Flow, 2=Temp, 3=Both
AV, 4		Flow Ins 1
AV, 5		Flow Ins 2
AV, 6		Temp Ins 1
AV, 7		Temp Ins 2
BO, 1		Relay
Notes:		
1. Number of AV objects is dependent on the probe count.		
2. User Executed Services Supported: Subscribe COV, Read Property, Write Property, Device Communication Control, Who-Is.		

EF-N2000-B Modbus Register Map					
Function	Address	Type	Units	Description	Range/Value
2	10001	boolean		Trouble Status	0:OK, 1:Trbl
4	30001-30002	float	FPM	Average Airflow	0 to 3,000
4	30003-30004	float	iWG	Average Pressure	-2.5 to 2.5
4	30005-30006	float	°F	Average Temp	-20 to 160
4	30007-30008	float	Sq.Ft	Duct Area	0 to 999.99
4	30101	word		Alarm Status	0: No alarm 1: High Alarm 2: Low Alarm 3: Both
4	30148	word		Firmware Revision	
4	300202	word		Float word order. Writeable	0: high word first; 1: low word first

SETUP MENUS (PART 1 OF 5)

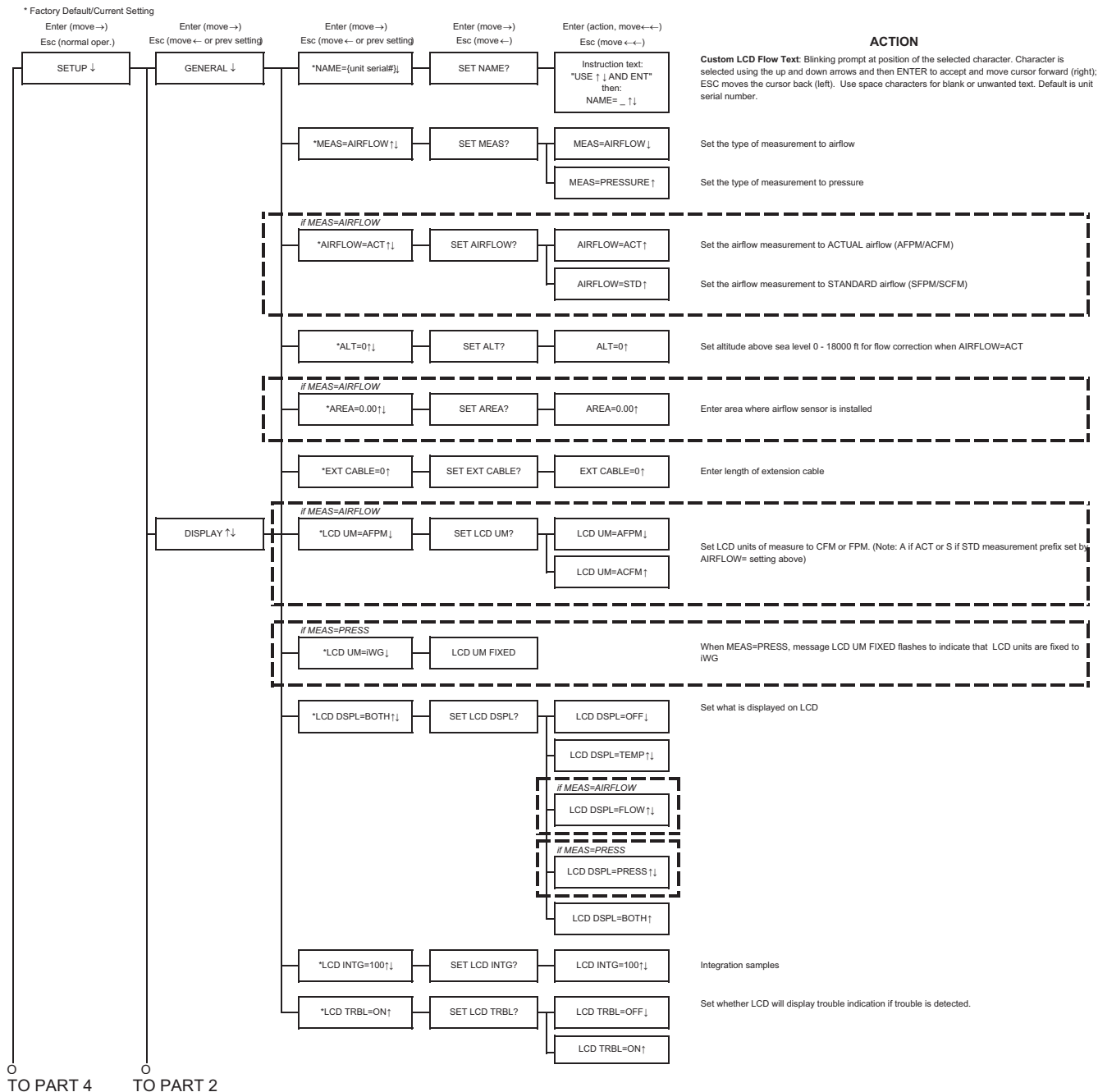
SYSTEM OF UNITS MENU

Simultaneously depress/release ENTER + ESC keys during normal operation to select



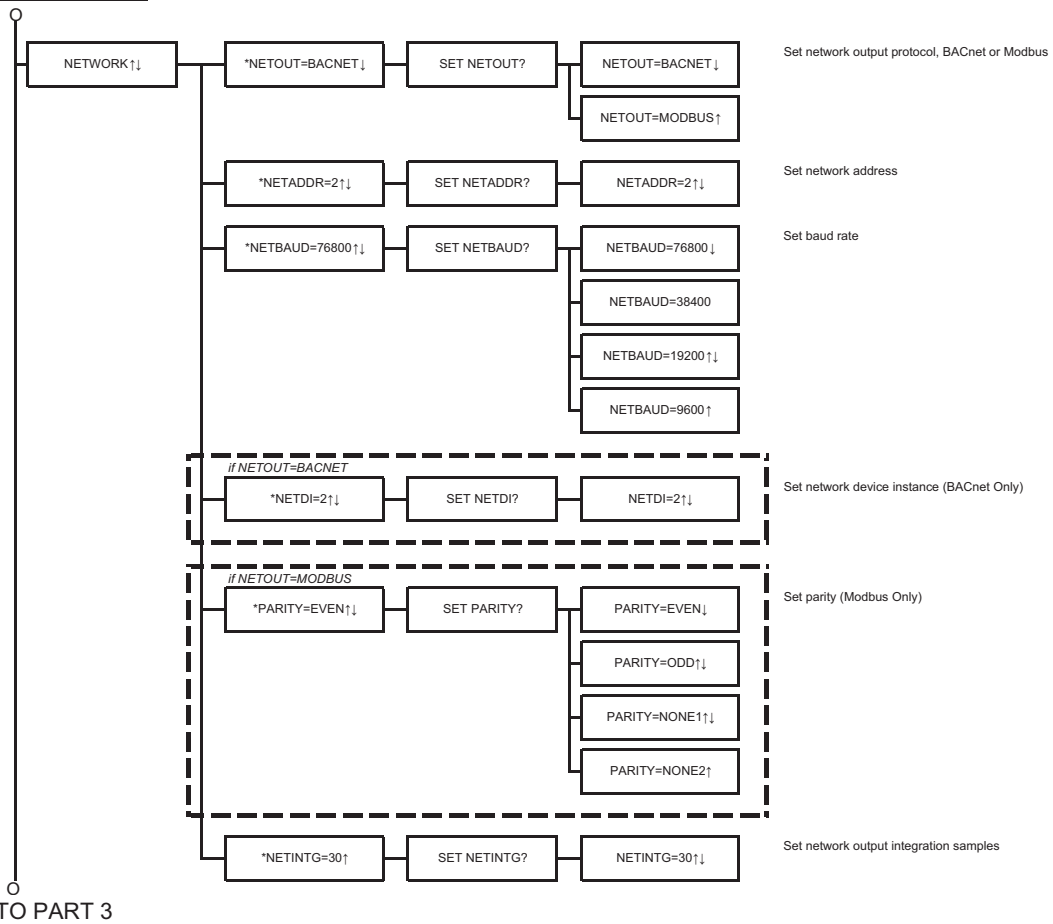
SETUP MENU

Simultaneously depress/release ↑ + ↓ keys during normal operation to select



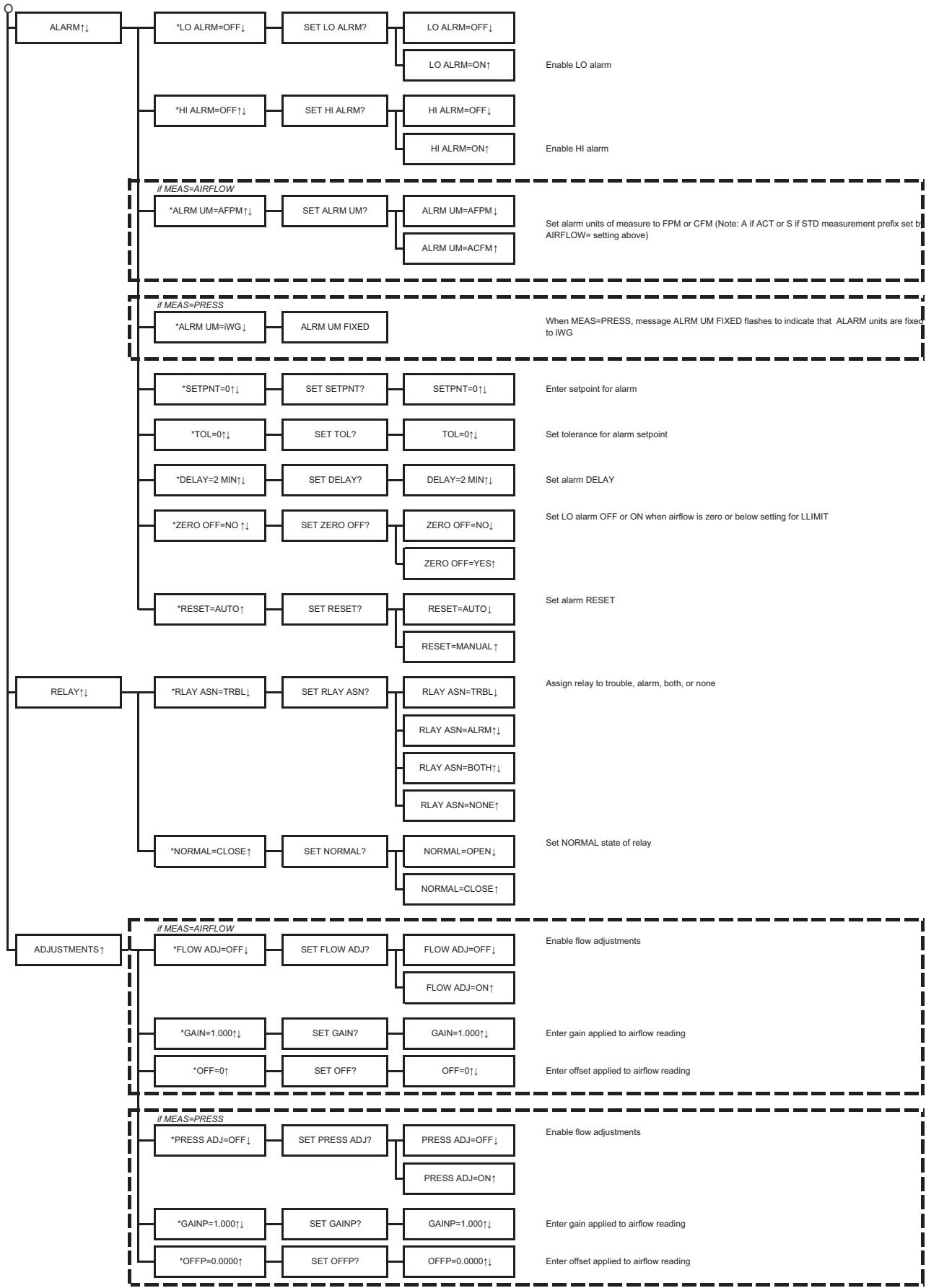
SETUP MENUS (PART 2 OF 5)

FROM PART 1



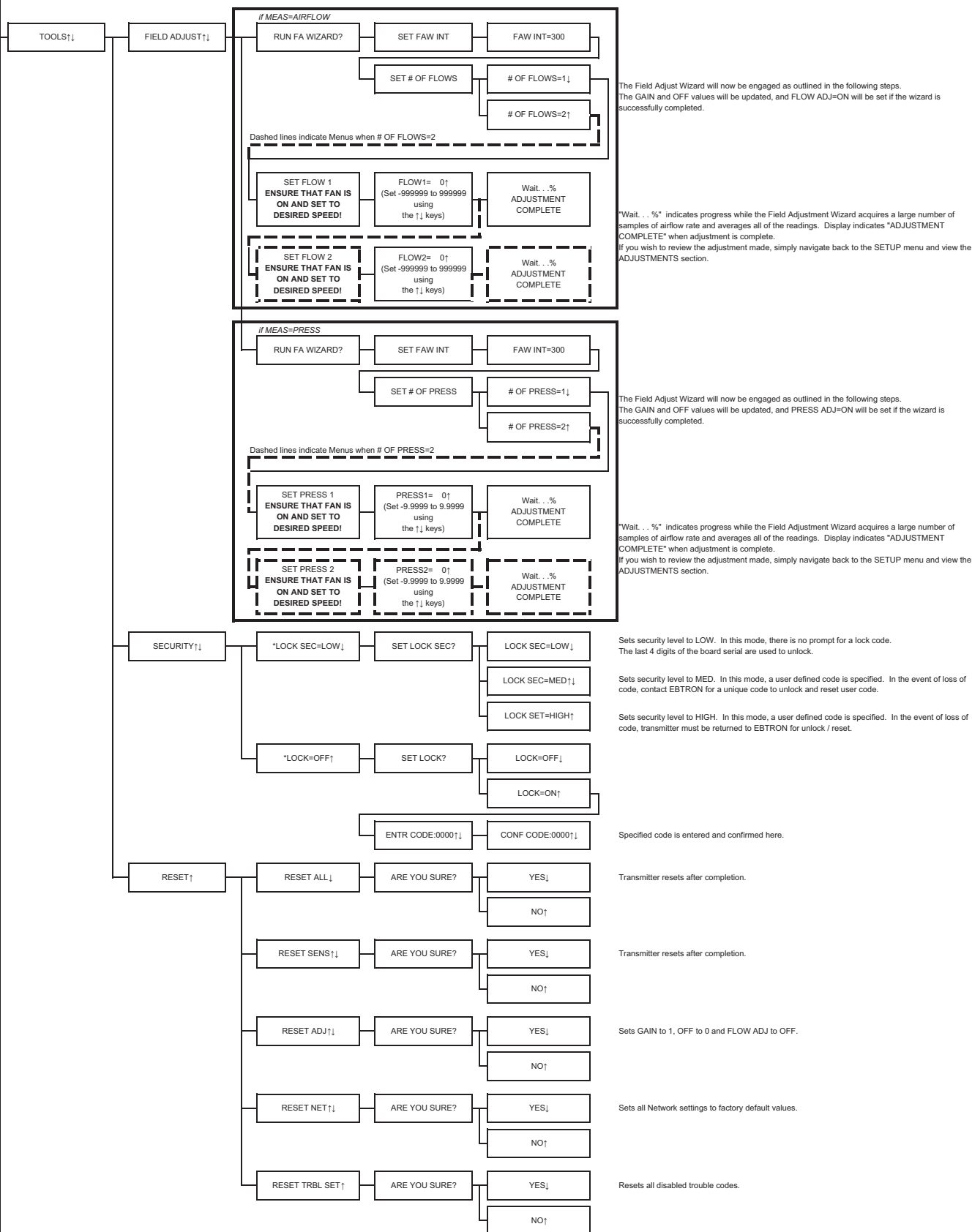
SETUP MENUS (PART 3 OF 5)

FROM PART 2



SETUP MENUS (PART 4 OF 5)

FROM PART 1



TO PART 5

FROM PART 4

