



BY 1-1  
BURNER MANAGEMENT  
FIREYE  
YB110UV/YP100

120 VAC, 50/60 HZ  
POWER

NOTE: JUMP IF  
TIME CLOCK  
IS NOT USED

FUEL GAS  
PROOF OF CLOSURE  
ZSC 5-1

RESET

BY 1-2  
FIREYE  
YZ300

OPERATING  
CONTROL

AUX  
LIMIT#1

AUX  
LIMIT#2

AUX  
LIMIT#3

HIGH  
WATER

LOW  
WATER

HIGH  
OIL  
TEMP.

LOW  
OIL  
TEMP.

LOW  
OIL  
PRESSURE

LOW  
ATOM  
MEDIA

LOW  
GAS  
PRESSURE

HIGH  
GAS  
PRESSURE

AUX  
GAS

HIGH  
PRESSURE

HIGH  
TEMP.

AUX  
LIMIT#4

AUX  
LIMIT#5

AUX  
LIMIT#6

AUX  
LIMIT#7

AIR  
FLOW

ANNUNCIATOR DEFAULT MESSAGES AND WIRING

EXP

YB100 FUNCTION:  
TERMINAL 10 TO X = HIGH FIRE PURGE  
TERMINAL 10 TO 12 = LOW FIRE PURGE  
TERMINAL 10 TO 11 = NORMAL MODULATION  
NOTE: JUMPER 6 TO 7 ON STRAIGHT OIL BURNERS

FROM 99  
TO BY 1-1 (12)

FROM 102  
TO BY 1-1 (11)

BAUD RATE = 9600  
UNIT ADDRESS = 00  
LOCK MESSAGES = YES  
DO IR LEARN = NO

PROVE M-8 OPEN = YES  
PROVE M-D OPEN = YES  
PROVE M-D 15 = YES  
M-51 WAIT 100 = 0.1/2 SEC  
PROVE M-D TFI = YES

YP100 PROGRAMMING  
PURGE TIME = 60 SEC.  
COUNT METHOD = DOWN  
PROVE 3-F OPEN AT START = YES  
M-51 WAIT 100 = 0.1/2 SEC  
M-51 WAIT 100 = 0.1/2 SEC  
TERMINAL 6 = INTERRUPTED PILOT

RUN SCANNER WIRING IN SEPARATE CONDUIT.  
CYCLE HEATER OFF AND ON ONCE EVERY 12  
HOURS FOR NON-SELF-CHECK SCANNERS.

FIREYE UV1A6  
ULTRA VIOLET SCANNER

BE 1-1  
UV SCANNER  
HTR

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Typical Wiring Diagram  
Heatec HC and HCS Heaters  
Sheet 3 of 3 sheets

Based on Heatec Engineering Drawing 4001099, Revised 3-26-09