Pilot

Pilot
1 PP
2 PILOT
3 GND
PILOT

AMP_READ
100k R25
28 R26
+5V
A_CT
1
2
100k R21
C11 .1uf
GND

6 TX
5
4 RX-I
3 +5V
2
1 GND
FTDI

C8 .1uf C9 .1uf C10 .1uf C3 .1uf + C4 10uf +5V
GND

MEGA8-AI
10k R10
29 PC6(/RESET)   PC0(ADC0) 23 AMP_READ
+5V   PC1(ADC1) 24 PILOTREAD
21 GND   PC2(ADC2) 25 PP_READ
20 AREF   PC3(ADC3) 26 ADC3
18 AVCC   PC4(ADC4/SDA) 27
                   PC5(ADC5/SCL) 28
7 PB6(XTAL1/TOSC1) ADC6 19 ADC6
                    ADC7 22 ADC7
8 PB7(XTAL2/TOSC2)
C1 22pf   PD0(RXD) 30 RX-I
Gnd   PD1(TXD) 31 TX
16000 Q1   PD2(INT0) 32 GFCI_INT
C2 22pf   PD3(INT1) 1 AC_TEST
C12 .1uf   PD4(XCK/T0) 2 AC_TEST_2
3 GND   PD5(T1) 9
5 GND   PD6(AIN0) 10 GFCI_TEST
4 VCC   PD7(AIN1) 11 DC_RELAY_1
6 VCC
+5V   PB0(ICP) 12 DC_RELAY_2
                   PB1(OC1A) 13 AC_RELAY_1
                   PB2(SS/OC1B) 14 PWM
                   PB3(MOSI/OC2) 15
                   PB4(MISO) 16
                   PB5(SCK) 17
IC2

I2C
4
3
2
1
+5V
GND

PP
1k R3
+5V
10k R2
PP_READ
D6 1N4148
GND

RELAY
1
2
3
GND
1N4148 D5
1N4148
330 R24 2222A Q2 +12V Q3 2222A 330 R11
DC_RELAY_1
GND

ISP1
1 MISO VCC 2
3 SCK   MOSI 4
5 RST   GND 6
+5V
GND

Pilot
VOUT+   VOUT+ 1uf C6 R13 2.4k R8 100k R9 100k +5V
GND   GND
VOUT-   VOUT- 1uf C5 R12 2.4k GND
                                 PWM
VIN-   VIN-   GND
VIN+   VIN+   C13 2.2uf +12V
                         GND
P6SMB16A PILOT
TVS
650 R1
GND
+5V
R5 56k R7 200k
PILOTREAD R6 100k
GND
ADC - Pilot Voltage

Charge
12V   12V   NC2
GND   GND
5V   5V   NC1
AC_LINE
ACN   ACN
ACL   ACH   NC1
TE 1776275-2 FUSE N / FUSE L
+12V +5V
R27 330 R28 180
GND GND

R4 47K
1 VCC 8 +5V
NC1 AUX 7
2 VO 6 AC_TEST_2
NC2 GND 5
GND GND

AC_TEST
2
1
TE 1776275-2
R22 47K
1 VCC 8 +5V
NC1 AUX 7
2 VO 6 AC_TEST
NC2 GND 5
GND GND

GFI
330 R23 GFCI_TEST
G_CT
3
2
1
D1 BAS40-06
R17 330
C7 .1uf
100k R16
1k R20 +5V
D3 1N4148
20k R15 100k R14 +5V
100 R18
C14 10uf
D4 1N4148
Fault GFCI_INT
10k R19
GND

OSHW LOGO