TR7Z-K2

NOTE 1 - DG REMOVAL SITE SCOPE

FOR SITES WHERE WE DO NOT HAVE STATIONARY DG, THE 'DG ON' AND 'PHASE 2' RELAYS WILL BE REPLACED WITH 3 RELAYS, AS DESCRIBED BELOW:

Phase 1 230VAC
Phase 2 230VAC
Phase 3 230VAC
+12V

TO GALOOLI DEVICE INPUT
(WHEN ALL PHASES AVAILABLE - VOLTAGE IS 12V)

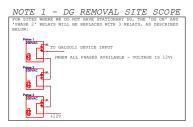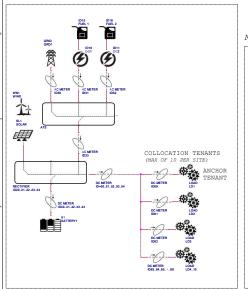## NOTE 2 - AVIATION LIGHTS

1. WHEN USING SINGLE RELAY (48V) TO INDICATE GENERAL STATUS OF THE AWL (VOLTAGE MONITORING ONLY, NO BUILBS COUNT) - USE EX6-1 INPUT
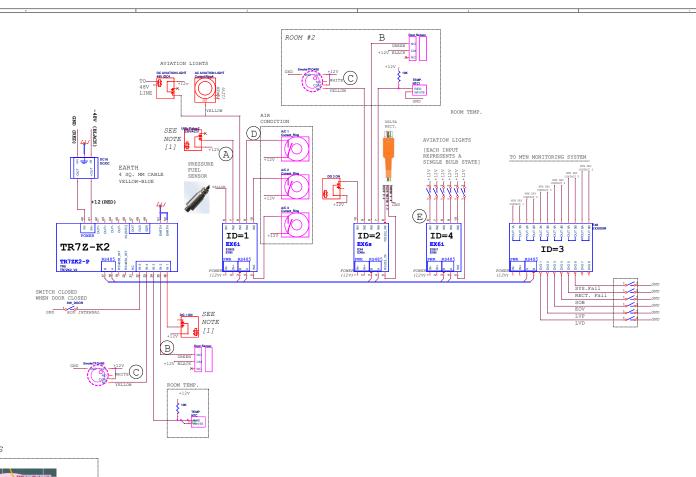
2. WHEN USING DC CONTROLLER OUTPUT (PER BULB), USE EX6-4. THIS WILL CAUSE THE SERVER TO 'COUNT' ACTIVE BULBS.

   CONFIGURING EX6-4 WILL CAUSE THE SERVER TO DISREGARD EX6-1 AWL INPUT

A GRID PHASE AVAILABLE WHEN VOLTAGE IS 12V

B DOOR OPEN WHEN VOLTAGE IS 0V

C SMOKE ALARM ACTIVE WHEN VOLTAGE IS 0V

D A/C ON WHEN VOLTAGE IS 12V
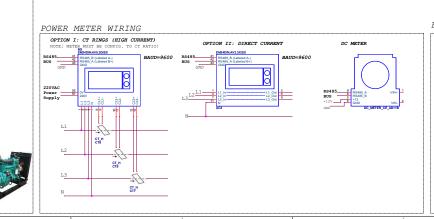
E AWL BULB IS WORKING WHEN VOLTAGE IS 12V

DEVICES LAYOUT & IDs ASSIGNMENTS

ID15 FUEL 1
ID16 FUEL 2
GRID GRD1
ID10 DG1
ID11 DG2
WN1 WIND
AC METER ID30
AC METER ID31
AC METER ID32
SL1 SOLAR
ATS
AC METER ID33
AC METER ID40.41.42.43.44
RECTIFIER ID20.21.22.23.24
DC METER ID=50.51.52.53.54
B1 BATTERY1

COLLOCATION TENANTS
(MAX OF 10 PER SITE)
DC METER ID60 — LOAD LD1
DC METER ID61 — LOAD LD2
DC METER ID62 — LOAD LD3
DC METER ID63.64.65...69 — LOAD LD4..10
ANCHOR TENANT

MISC DEVICES

SMOKE SENSOR
NC to Galooli
GND +12V

BAUD=19200 ID=10
RS485 BUS A B
[1] GND
Deepsea

GROUND ALSO CONNECTED TO DG BODY

POWER METER WIRING

OPTION I: CT RINGS (HIGH CURRENT)
NOTE: METER MUST BE CONFIG. TO CT RATIO!

RS485 BUS 41 RS485_B (Labeled A-) 42 RS485_A (Labeled B+) GND
EM24DIN.AV5.3DISX BAUD=9600
220VAC Power Supply
L1
L2
L3
N
CT_H CT8
CT_H CT9
CT_H CT7

OPTION II: DIRECT CURRENT

RS485 BUS 41 RS485_B (Labeled A-) 42 RS485_A (Labeled B+) GND
EM24DIN.AV2.3XISX BAUD=9600
L1 In L1 Out
L2 In L2 Out
L3 In L3 Out
AIC3

DC METER

RS485 BUS 9 RS485_A 8 RS485_B +12 VIN+ GND VIN-
DC_METER_CE_AD11B

FUEL SENSORS

HOLYKELL HPT604
FUEL (19200 ID=15/16)2 Holykell
RED PWR
GREEN BLUE RS485-A
YELLOW RS485-B

IMPRESS
+12v
BROWN
YELLOW
WHITE

OMNICOMM
+12V
RS485 BUS
+ BROWN
WHITE
ORANGE-WHITE (A)
BLUE-WHITE (B)
Vepamon

TL2 TELECOM LAYOUTS
[TYPE] {REVx}

INDOOR_ONGRID
INDOOR_OFFGRID
OUTDOOR_ONGRID
OUTDOOR_OFFGRID
INDOOR_HYBRID_ONGRID
INDOOR_HYBRID_OFFGRID
OUTDOOR_HYBRID_ONGRID
OUTDOOR_HYBRID_OFFGRID
INDOOR_SOLAR
OUTDOOR_SOLAR

AWL (EX6-4)

Central Diagram

AVIATION LIGHTS
DC AVIATION LIGHT 48V /DC4
TO 48V LINE
AC AVIATION LIGHT 230VAC1 Current Ring4
POWER (12V) YELLOW

ROOM #2
B Door Sensor GREEN NC CM NC
+12V BLACK
+12V 10K
TEMP. NTC WHITE GND

SmokeTFD480 GND +12V WHITE YELLOW C

ROOM TEMP.

AIR CONDITION
AIC 1 Current_Ring +12V
AIC 2 Current_Ring +12V
AIC 3 Current_Ring +12V

DELTA RECT.

DG 2 ON +12V

AVIATION LIGHTS
[EACH INPUT REPRESENTS A SINGLE BULB STATE]
+12V +12V +12V +12V +12V +12V

TO MTN MONITORING SYSTEM
MTN DRY CONTACT 1...6

SEE NOTE [1] A

PRESSURE FUEL SENSOR YELLOW

GND (RED) ~48V (BLACK)
+12 (RED)
DC16 DC/DC
EARTH 4 SQ. MM CABLE YELLOW-BLUE

TR7Z-K2
TR7ZK2-P TR8 TR7ZK2_V2
POWER RS485 RS485B_INT RS485A_INT
EARTH EARTH

ID=1 EX6i EX6I3 EX6i PWR RS485
ID=2 EX6s EX4 EX6a PWR RS485
ID=4 EX6i EX8I1 EX6i PWR RS485
ID=3 PWR RS485

POWER (12V)

SWITCH CLOSED WHEN DOOR CLOSED
SW_DOOR GND BOX_INTERNAL

DG 1 ON +12V SEE NOTE [1]

B Door Sensor GREEN NC CM NC
+12V BLACK

SmokeTFD480 GND +12V WHITE YELLOW C

ROOM TEMP.
+12V 10K TEMP. NTC GND WHITE

SYS.Fail GND
RECT. Fail GND
SOB GND
EOV GND
LVP GND
LVD

Utility Ptase2 230VAC1 +12V D

Title Block

ATC. UG. K2.
REV 1.07

Files atc ug/atc ug tr7zk2/ug tr7zk2 devices layout ver006

ATC UG TR7Z Wiring

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