

Class A Ship-borne UAIS Wiring Diagram

DISPLAY (VDU) PORT

Cable: 4 Twisted Pair + Drain

Transponder	Cable Colour / No.	Display Connector Assignment
1	RXCOM	Pin 2
2	RXB	Pin 1
3	RXA	Pin 6
4	TXA	Pin 12
5	TXB	Pin 13
6	TXCOM	Pin 8
7	SPARE	
8	+BATOUT	Pin 3
9	-BATOUT	Pin 4

SEN1, SEN2 & SEN3
(Gyro / GNSS / BT Log)

Cable: 1 Twisted Pair + Drain

Transponder	Cable Colour / No.	Sensor Assignment
1	SEN1-RXB	
2	SEN1-RXA	
3	SEN1-COM	No Connection
1	SEN2-RXB	
2	SEN2-RXA	
3	SEN2-COM	No Connection
1	SEN3-RXB	
2	SEN3-RXA	
3	SEN3-COM	No Connection

SEN1 / SEN2 / SEN3 SWITCHES
Terminating resistor.
ONLY switch-on if last device in chain

MAIN PORT
(ECDIS / ARPA)

Cable: 3 Twisted Pair + Drain

Transponder	Cable Colour / No.	Device Assignment
1	RXCOM	No Connection
2	RXB	
3	RXA	
4	TXA	
5	TXB	
6	TXCOM	No Connection

VHF Antenna

PL259 or N Connector

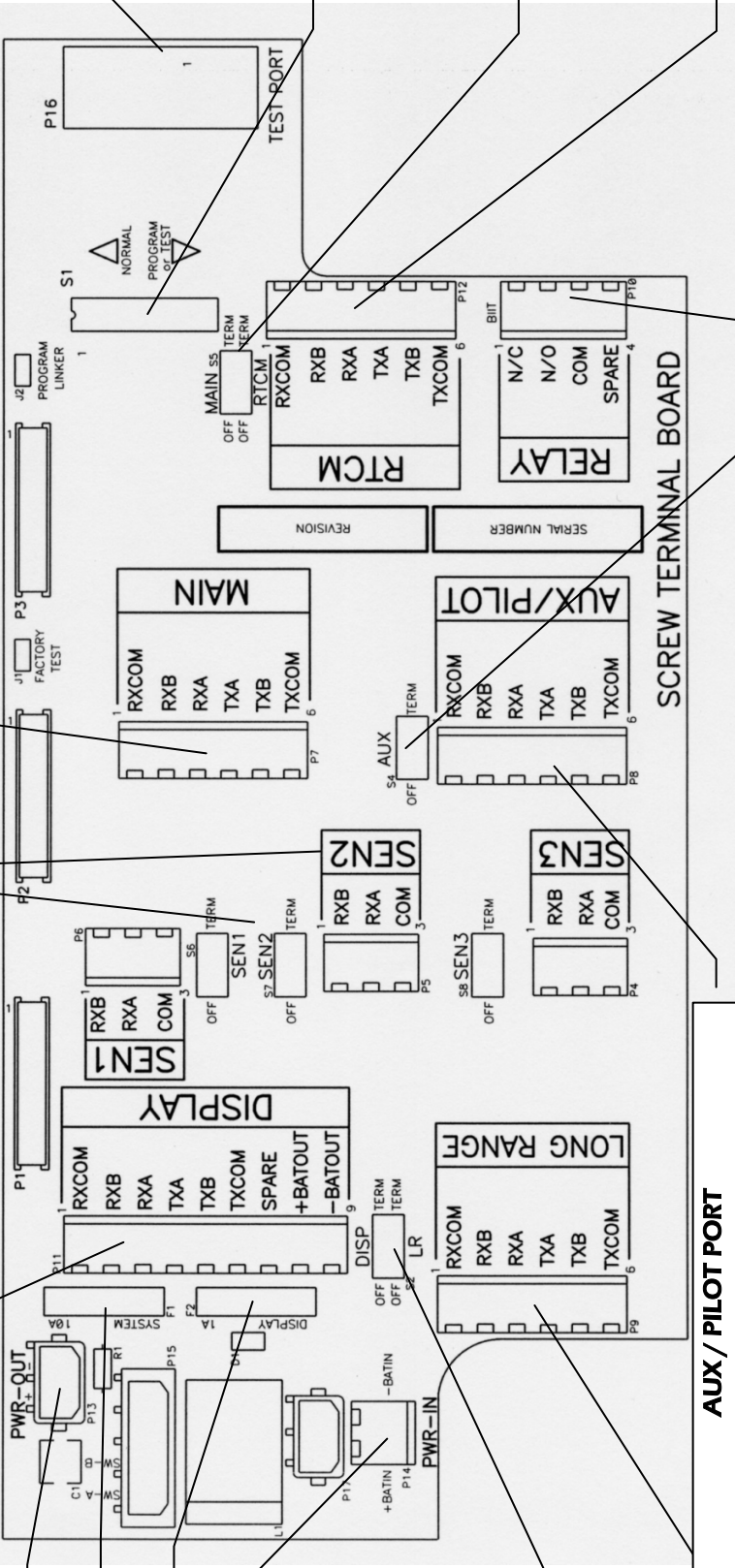
PL259 Transponder

GPS Antenna

TNC Connector

TNC Connector Transponder

NOTES:
1) Twisted wire MUST be paired as (RXA / RXB), (TXA / TXB).
2) Drain wires MUST be terminated with screen under cable cleats.
3) Transponder chassis MUST be connected to ships ground.



PWR-OUT (Power out to Chassis)

SYSTEM FUSE (10 AMP)

DISPLAY FUSE (1 AMP)

PWR-IN (Power supply input)
Double pole switch fused 10A supply

Transponder	Cable Colour / No.	Bus Bar
+ BAT IN		24VDC
- BAT IN		0VDC

DISP/LR SWITCH
Terminating resistor.
ONLY switch-on if last device in chain

LONG RANGE PORT

Cable: 3 Twisted Pair + Drain

Transponder	Cable Colour / No.	Device Assignment
1	RXCOM	No Connection
2	RXB	
3	RXA	
4	TXA	
5	TXB	
6	TXCOM	No Connection

AUX / PILOT PORT

Cable: 3 Twisted Pair + Drain

Transponder	Cable Colour / No.	Pilot Plug Assignment
1	RXCOM	No Connection
2	RXB	Pin 6
3	RXA	Pin 5
4	TXA	Pin 1
5	TXB	Pin 4
6	TXCOM	No Connection

RELAY (BIIT) PORT

Cable: 1 Twisted Pair + Drain

Transponder	Cable Colour / No.	Alarm Panel Assignment
1	N/C	
2	N/O	
3	COM	
4	SPARE	

AUX SWITCH
Terminating resistor.
ONLY switch-on if last device in chain

RTCM PORT
(Differential correction)

Cable: 3 Twisted Pair + Drain

Transponder	Cable Colour / No.	Device Assignment
1	RXCOM	No Connection
2	RXB	
3	RXA	
4	TXA	
5	TXB	
6	TXCOM	No Connection

TEST / PROGRAMMING PORT
Authorised Service Personnel Use ONLY

TEST / PROGRAMMING SWITCH
(Normal / PC Change Over)
Authorised Service Personnel Use ONLY.
Ensure switch is in the NORMAL position

MAIN / RTCM SWITCH
Terminating resistor.
ONLY switch-on if last device in chain