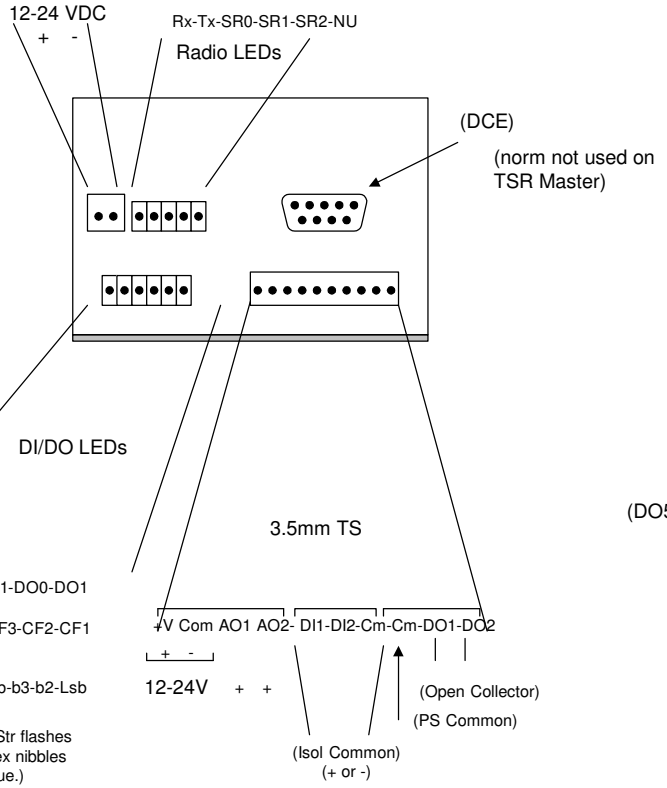
REV.	DESCRIPTION	DATE	BY

TSR900 Master Connections

Front View



Normal: Tx-Run-DI0-DI1-DO0-DO1

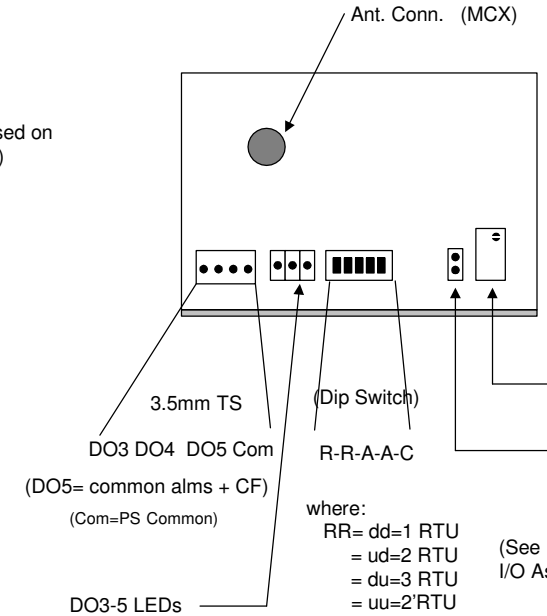
CF* Mode: Tx-Run-Run-CF3-CF2-CF1

Cal Mode: Tx-NibStr--Msb-b3-b2-Lsb

(Calmode Note: NibStr flashes prior to each of 3 hex nibbles of anolog value.)

* CFn is on solid for comm fail; flashes if DI5 from that station is active.

Rear View



(Remove while doing radio setup via serial port)

where:
RR= dd=1 RTU
= ud=2 RTU
= du=3 RTU
= uu=2'RTU

(See next sheet for I/O Assignments.)

where:
AA= anal cal disp
dd=Norm disp
ud=Anl 2
du=Anl 1

where:
C= comm fail disp
d=Norm disp
u=comm fail

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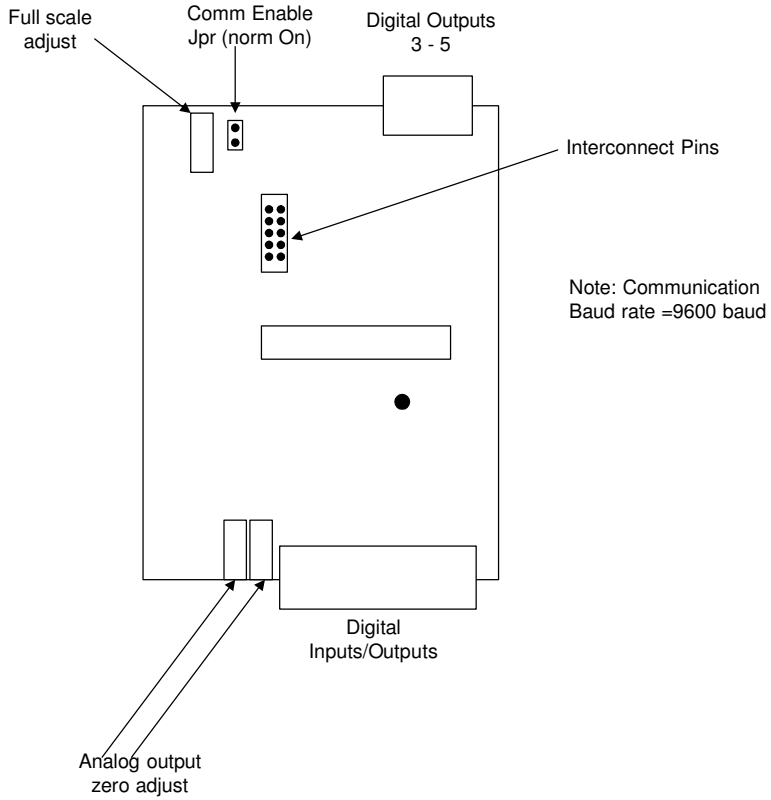
1.0	Misc Changes	03/26/02	ch

Internal Options

(Top view)



To open unit:
* Remove end plate.
* Remove phillips screw from bottom.
(caution- nylon washer between standoff and board)

I/O Assignments

For 1 RTU: (Switches RR= d-d)

- All Inputs from RTU are mirrored on Master.
- 2 Dig Inputs from Master are sent to RTU.

For 2 RTU: (Switches RR= u-d)

- From RTU 1 inputs: DO1 & DO2, AO1
- From RTU 2 inputs: DO3 & DO4, AO2
- 2 Dig Inputs from Master are sent to both RTUs.

For 3 RTU: (Switches RR= d-u)

- From RTU 1 inputs: DO1 & DO2, AO1
- From RTU 2 inputs: DO3 & DO4
- From RTU 3 inputs: AO2
- 2 Dig Inputs from Master are sent to all RTUs.
(RTU 2 can be a TSR-AO an also output both AI's)

For 2' RTU: (Switches RR= u-u)

- From RTU 1 inputs: AO1 & AO2
- From RTU 2 inputs: DO1 & DO2 & DO3 & DO4
- 2 Dig Inputs from Master are sent to both RTUs.
(RTU 2 can be a TSR-AO an also output both AI's, but limited to 2 inputs, 2 outputs)

Note: The 5th Dig out is determined by:
OR of the 5th DIs from any remotes
OR Comm fail from any remotes.

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TSR900 Configurations

1 RTU TO/FROM MASTER

RTU 1		MASTER
DI-1	→	DO-1
DI-2	→	DO-2
DI-3	→	DO-3
DI-4	→	DO-4
DI-5	→	DO-5
AI-1	→	AO-1
AI-2	→	AO-2
DO-1	←	DI-1
DO-2	←	DI-2

3 RTU TO/FROM MASTER

RTU 1		MASTER
RTU 1 DI-1	→	DO-1
RTU 1 DI-2	→	DO-2
RTU 2 DI-1	→	DO-3
RTU 2 DI-2	→	DO-4
RTU 1 OR 2 OR 3 DI-5	→	DO-5
RTU 1 AI-1	→	AO-1
RTU 3 AI-1	→	AO-2
RTU 1/RTU 2/RTU 3 DO-1	←	DI-1
RTU 1/RTU 2/RTU 3 DO-2	←	DI-2

2 RTU TO/FROM MASTER

		MASTER
RTU 1 DI-1	→	DO-1
RTU 1 DI-2	→	DO-2
RTU 2 DI-0	→	DO-3
RTU 2 DI-1	→	DO-4
RTU 2 OR RTU 1 DI-5	→	DO-5
RTU 1 AI-1	→	AO-1
RTU 2 AI-1	→	AO-2
RTU 1/RTU 2 DO-1	←	DI-1
RTU 1/RTU 2 DO-2	←	DI-2

2' RTU TO/FROM MASTER

		MASTER
RTU 2 DI-1	→	DO-1
RTU 2 DI-2	→	DO-2
RTU 2 DI-3	→	DO-3
RTU 2 DI-4	→	DO-4
RTU 1 OR RTU 2 DI-5	→	DO-5
RTU 1 AI-1	→	AO-1
RTU 1 AI-2	→	AO-2
RTU 1/RTU 2 DO-1	←	DI-1
RTU 1/RTU 2 DO-2	←	DI-2

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