

PRP2 INDENTED PART LIST								
pn	1	2	3	4	5	6	7	DESCRIPTION
20	RAD							RADIOMETER ANALOG-DIGITAL INTERFACE
20.1	RAD INSTRUMENT PLATE							Plate with PSP & PIR radiometers.
20.1.1	RAD PLATE							Blank plate. From machine shop.
20.1.2	BOLT SET, PSP/PIR, (6 SETS)							Bolts, washers, nuts for radiometers. 6 bolts, 6 nuts, 12 flats, 6 locks
20.2	PIPE MOUNT							Full pipe mount assembly with hardware.
20.2.1	MOUNT, BLANK							Blank mount, with helicoils. From the machinist.
20.2.2	BOLT, CLAMP, TIGHTENING							Bolt to clamp the fitting to a pipe.
20.2.3	BOLT, SET SCREW							Set screw bolt. firms up the clamp onto a pipe.
20.2.4	BOLT SETS (4) PLATE							Bolt sets for fastening the plate to the pipe mount. (bolt-washers-nuts)
20.3	PSP							Eppley Labs, PSP. Standard model assembly with shade plates.
20.3.1	PSP SENSOR							Basic PSP sensor. Standard brass housing.
20.3.2	SHADE PLATE							Shade plate from Eppley.
20.3.3	SCREWS, SHADE PLATE (3 RQD)							Three tiny FH screws for the plates.
20.4	PIR							Eppley Labs PIR, standard model. Assembly with shade plates.
20.4.1	PIR SENSOR							Basic PIR instrument from Eppley
20.3.2	SHADE PLATE							Shade plate from Eppley. (Sae as PSP)
20.3.3	SCREWS, SHADE PLATE (3 RQD)							Three tiny FH screws for the plates.
20.5	HOUSING, RAD CIRCUIT							Complete RAD assembly.
20.5.1	ROSE BOX							Rose-Bopla box with connector holes.
20.5.1.1	BOX, BLANK							Blank box from Rose Bopla
20.5.1.2	PLATE, INTERNAL,							Mounting plate from Rose Bopla
20.5.1.3	SCREWS, GROUNDING							Cu screws fro R-B (4)
20.5.1.4	JOB, MACHINE, RECEP HOLES							Drill and tap for receptacles. Machine shop job.
20.5.2	CIRCUIT BOARD, COMPLETE ASSY							Complete electronic circuit board.
20.5.2.1	PCB BLANK							Blank PCB.
20.5.2.2	SCREWS, MOUNTING (8)							#4 screws for standoffs.
20.5.2.3	STANDOFF, MOUNTING (4)							#4 threaded standoffs
20.5.2.4	PARTS-ELECTRONIC PARTS LIST							All components on the circuit board.
20.5.2.5	JOB, ASSEMBLY PCB							RE or other make the RAD circuit board and confirm operation.
20.5.3	RECEP, PSP							Bulkhead receptacle and PCB connector.
20.5.3.1	BHR Impulse							Impulse MCBH-4-FS(SS) (with o-ring)
20.5.3.2	Nut, backing							Impulse nut for backing the recepticle.
20.5.3.3	Connector, AmpModu							Connection to RAD PCB, 2x4, Digikey A25832-nd, AMP 87977-2 (Mates w A26711-ND, 103168-2)

20.5.3.4			<b>JOB, MAKE INPUT CABLE</b>	Make the cable for both PIR and PSP inputs to one AmpModu
20.5.4			RECEP, PIR	Bulkhead receptacle and PCB connector.
20.5.4.1			BHR Impulse	Merge wires to 20532. MCBH-8-FS(SS) w o-ring PSP & PIR are on the same AmpModu connector.
20.5.4.2			Nut, Backing	Impulse nut for backing the recepticle.
20.5.5			RECEP, PWR/COM	Impulse bulkhead receptacle
20.5.5.1			BHR, Impulse	Impulse Power and communication. MCBH-6-FS(SS) w o-ring
20.5.5.2			Nut, Backing	Impulse nut for backing the recepticle.
20.5.5.3			Connector, AmpModu	Connection to pwr/comm, AmpModu 2x5, Digikey A25834-ND, AMP 87977-3 (MATES W A26714-ND, 103168-3)
20.5.5.4			<b>JOB, MAKE CABLE</b>	Make the power & coms cable.
20.6			CABLE SET, RAD	Set of cables for the RAD assembly
20.6.1			CABLE, RAD TO PSP	Impulse to Amphenol for PSP
20.6.1.1			CABLE, IMPULSE, PIGTAIL	Impulse plug on one end and an Amhenol will be mated n the other.
20.6.1.2			CONNECTOR, AMPHENOL	We get these from Eppley with the radiometer order.
20.6.1.3			<b>JOB, ASSEMBLE PSP CABLE</b>	
20.6.2			CABLE, RAD TO PIR	Impulse to Amphenol for PIR
20.6.2.1			CABLE, IMPULES, PIGTAIL	
20.6.2.2			CONNECTOR, AMPHENOL	
20.6.2.3			<b>JOB, ASSEMBLE PIR CABLE</b>	
20.6.3			POWER/COMMS CABLE -- TYPICAL	Impulse plug to open pigtail, 10 m, typical for any application.
20.6.3.1			CABLE, PWR COMS, IMPULSE	
20.7			RAD BACK PLATE ASSY	Assembly for mounting the RAD box onto the pole.
20.7.1			BACK PLATE	Blank plate with holes, ground nut,
20.7.2			HARDWARE, BOX MOUNT (4 SETS)	Hardware with insulators, nuts, etc.
20.7.3			HARDWARE, POLE MOUNT	Hardware to bolt the plate to the pipe. Incl. ground straps.
20.8			RAD PIPE STAND	