		5 %	
Date 3/25/2015 INSTALL SHEET (Q330 Surface Site with Wilan T Local Date/Time: 9:35 Am GMT	Stat elemetry)	ion2000 D	1
	Date/Time:		
Field Team: Tame, Pat	-1-		
GPS Location of Site:	1 D-0 2 1 Mg/	n n	
Equipment			
Sensor S/N: 89935		15-2	
5/N: 0100000 AZ786 DDFC	BOD STORY	47	
Moderato: Q33 = IP: 204.114.29.48 16	Titourin II.	5 249	
Clock S/N:	Balo Tay:		
Flash Disk 1 S/N:	Size: Franceiler; DY	5A10110	
Flash Disk 2 S/N:	GPS trancelor; DY	0 SW 3	
INSTALL SENSOR	Switch label:		
Record the declination of your compassdegree	es W / E (circle one)		
Place an arrow on the figure below showing where the declin	ation marks is position on	this compass (cross check ag	gainst above to
avoid sign errors)	Table 1)	
		aligned based or map of drift	1
		map of diffe	4
_ 5 0	5	1 / 0.7777	
Ε	W		
	10en - 0er		
Guralp 3T			
Add layers of landscaping timber to provide clearance	ce for this larger sensor		
Sweep any dirt from the top of the concrete base Attach the alignment jig and use it to simultaneously	level and orient the sensor		
Lock feet of sensor			
Connect the sensor cable to the sensor and then to the Reattach the alignment jig and fill out the alignment			
degree align and relevel before making final measure		nts). If initial offentation is	on by more than 1
Trillium or STS2 ✓ Sweep any dirt from the top of the concrete pad			
N/A Use a ruler and sharpie to scribe an alignment line or	the concrete base for this	sensor	
Connect the sensor cable to control box and sensor Align the sensor using the mark and the alignment re	od. level, repeat until level	and aligned (fill out table be	low)
ALL SENSORS	W W/ 14	(/
$\frac{N/A}{N}$ Cut a length of 2" fire hose to run from sensor vault $\frac{N/A}{N}$ Use a fish tape to pull the DAS to control box cable		onnect both ends	
Vullock masses			
 ✓ Center masses✓ Working with your partner verify the sensor is function	ional with a stomp test		
Install vault cover with screws Cover vault with at least 2 layers of black plastic	Ť		
Bury sensor using sandbags filled with dirt, mound of	lirt ton top of vault cover, a	and add mulch to top	

Station Name	20001
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Use Brunton compass adjacent to sensor measurement jig, measuring North (N) and South (S). Reverse the jig and repeat recording the 4 measurements below. Record to your best guess of the nearest 0.1 degree. If orientation is more than 1 degree away from NS try to realign. For Trillium and STS2 sensors use left and right side of alignment rod

	Brunton Left (N)	Brunton Left (S)	Brunton Right (N)	Brunton Right (S)
	•			IN TABLE THE PARTY OF
			The second secon	sc I
				ph)
* dept.	₩	2 43 F		<u> </u>

	Q330 Hardware Setup	
	Install solar panels on post using brackets and wood screws.	
	Reconfigure guy wires if necessary	
A	Place the dog house near the solar panel pole with the door facing downhill to allow water to drain	
	Install GPS on top of pole (must see the sky)	
	Install Wilan radio on the pole (make sure the antenna is on the side facing Yates)	
	✓ Run GPS and network cables and connect to Q330 (do not bundle up until testing is finished)	
	Connect the baler to the Q330	
	Power system tests:	
	Initial battery voltage (V) NA	
	Solar panel output test:	
	Sun condition when tested (circle one): (a) sun on panels, (b) cloudy, (c) sun on panels at low angle	
	Panel 1 output (V)	
	Panel 2 output (V) N/A	
	Equipment power up:	
	Make sure power box is set for sealed battery mode	
	Plug battery into power box. Record voltage showing on LCD display (V)	
	Connect both solar panels to power box. Record voltage on display (V)	
	✓ If all looks ok, connect the Q330 to power (Note with Guralp unlock cannot happen till now)	
	Check here when the GPS LED goes yellow	
	Check here when the OI'S EED goes yellow	
	O220 Operations with the Clic (program O220B147 on the CONV Clic BDA)	_
	Q330 Operations with the Clie (program Q330B147 on the SONY Clie PDA) Clone the program into the Q330	
	Commands->Cloning	
	>Select file to clone based on sensor type	
	>Station names	
	>Palm overrides 330	
	>"Check" Edit/Verify	
	>IP Addresses >Palm overrides 330	
	>"Un-Check" Edit/Verify	
	!Send	
	!Send >Station Names >DP4 >New	
	!Send >Station Names >DP4 >New !Enter current station name (All CAPS and up to 5 letter/number characters)	
	!Send >Station Names >DP4 >New !Enter current station name (All CAPS and up to 5 letter/number characters) !Ok	
	!Send >Station Names >DP4 >New !Enter current station name (All CAPS and up to 5 letter/number characters) !Ok !Save/Reboot	
	!Send >Station Names >DP4 >New !Enter current station name (All CAPS and up to 5 letter/number characters) !Ok !Save/Reboot !Ok 1. 2. 200-2	
	!Send >Station Names >DP4 >New !Enter current station name (All CAPS and up to 5 letter/number characters) !Ok !Save/Reboot !Ok !Views ->Data Recording ->DP/* *Station name D 2000 (SENSOR TYPE)	
	Station Names Station Names Station Names Station name S	
	!Send >Station Names >DP4 >New !Enter current station name (All CAPS and up to 5 letter/number characters) !Ok !Save/Reboot !Ok !Views ->Data Recording ->DP/* *Station name D 2000 (SENSOR TYPE)	

	isend Baier Command (Baier should turn on) Do NO	I use A	TIND
	Note: If the baler times out BEFORE fi	nishing	REPEA
Þ	Status -> Data Port Txfr -> Data4 *Packet Buffer (Decreases to zero)	(YES	NO
	*Data packets sent 486		

NOTE: If the Q330 does not transfer data to the Baler try clearing the Baler "association" by holding in the baler Attention button in until the light turns solid red (~5 sec). Release the button and then, after the light begins to flash green, press the Attention button once to shut down the Baler. Repeat the process once more and then try to transfer data to the Baler.

	Status->General*Total	ReSyncs	UIL			
Ø	Views ->Sensor: *Boom	m Positions (le	ess than +/-15, i.e	e. less than -	+/-1.5 volts)	
	1	2	- 11	3	2	
	App ->Make Docfile	!OK to defa	ult filename Con	f-YrMoDy-	·Q330	

737

SITE NOTES (Anything strange or notable)

Checklist

Paperwork

✓ Completed pages 1-3

Sensor

N/A Compass declination set and recorded

⊁ Oriented:

× Level

Feet locked

Power system

✓ Battery terminals tight

[_All power box connection tight

Any external power cables to box secured from rodent damage

Cables in the air have drip lines

✓ No cables are on the ground without protection

VASOLAR: panel boxes closed

XAC: battery minder plugged in powered

O330

✓ Completed paperwork on pages 1-2

Acquiring data

All unused connectors capped

Site

Multiple layers of plastic on top of vault

Plastic configured to not collect water around sensor vault

Vault well covered with sandbags and dirt (6 inches minimum)

Cables all secured

Dog house door is secured

Cable entry plugged with plumber's putty

Inventory

5TS-2, 2x orange coble, breakout box

Q330 + baller + Experiment cables (Serial -> Baller, QNET + ethernet + gover)

GPS transceiver + Cables + converter

Battery + battery tenderan

Large tab Small tab