Date 3/25/2018	Station 2000 B
INSTALL SHEET (Q330 Surface Site with Wilan Teleme Local Date/Time: 12:11 /// GMT Date/T	try)
Field Team: Tanne, Pat	inic.
GPS Location of Site:	
Equipment	
110572	or Type: 575 - 2
	1432
Q330 IP: 204.114.29.53 Mod	ler to 9: 05403
Clock S/N:	
Flash Disk 1 S/N:	transcere: DESA DILY
Flash Disk 2 S/N:	Suitch 2000 SW1
INSTALL SENSOR	[abel:
Record the declination of your compassdegrees W / I	E (circle one)
Place an arrow on the figure below showing where the declination n	narks is position on this compass (cross check against above to
avoid sign errors)	By March and San
	Alynia using
5 0 5	Aligned using marks on grante state
F 2 V 2	W
, a	
Guralp 3T	
Add layers of landscaping timber to provide clearance for the	nis larger sensor
Sweep any dirt from the top of the concrete base Attach the alignment jig and use it to simultaneously level a	and orient the sensor
Lock feet of sensor Connect the sensor cable to the sensor and then to the DAS	(leave enough slack to allow you to reattach the alignment jig)
Reattach the alignment jig and fill out the alignment table b	elow (4 measurements). If initial orientation is off by more than
degree align and relevel before making final measurements. Trillium or STS2	e e
Sweep any dirt from the top of the concrete pad What Use a ruler and sharpie to scribe an alignment line on the co	parata hasa for this sensor
X Connect the sensor cable to control box and sensor	
✓ Align the sensor using the mark and the alignment rod, leve ALL SENSORS	l, repeat until level and aligned (fill out table below)
NA Cut a length of 2" fire hose to run from sensor vault to DAS	
√ Use a fish tape to pull the DAS to control box cable through ✓ Unlock masses	the fire nose and connect both ends
Center masses Working with your partner verify the sensor is functional w	ith a stown test
N/ Install vault cover with screws	iui a storip tost
NA Cover vault with at least 2 layers of black plastic NB Bury sensor using sandbags filled with dirt, mound dirt ton	top of vault cover, and add mulch to top

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	9	>
Station Name	7000)

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)	unton Left (S) Brunton Right (N) Brunton Rig		inton Left (S) Brunton Right (N) Bru	
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	100				

N P{	O330 Hardware Setup Install solar panels on post using brackets and wood screws. Reconfigure guy wires if necessary Place the dog house near the solar panel pole with the door facing downhill to allow wate 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 finish of Connect the baler to the Q330	
N/A{	Power system tests: Initial battery voltage (V)/_A Solar panel output test: Sun condition when tested (circle one): (a) sun on panels, (b) cloudy, (c) sun on panels at Panel 1 output (V)/_A Panel 2 output (V)/_A Equipment power up: Make sure power box is set for sealed battery modePlug battery into power box. Record voltage showing on LCD display (V) Connect both solar panels to power box. Record voltage on display (V)	
	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	
	>Station Names >DP4 >New !Enter current station name (All CAPS and up to 5 letter/number c	haracters)
	!Save/Reboot !Ok !Ok Views -> Data Recording -> DP *Station name	
	Note: DP3 station name should correspond to sensor type. **Diews -> Data Recording -> DP4 *Station (STATION NAME) *Net ** Net	CODE)
	Connect sensor to Q330 AFTER Cloning the Q330 for correct sensor type	

Date 3/25/2015	Station	ZODOB	3
SENSOR Unlock Procedure			_
CMG-3T: Attach extra power to 3T BOB. Use the BOB to test if the se <u>Enable</u> Buttons for about 10 seconds. Watch the LED light (use.)			
Next, unlock the sensor. Press and hold both the <u>Unlock</u> and buttons when the LED light illuminates (2 blinks and solid re			ls. Release
TURN OVER STS-2: Use an STS-2 screwdriver to smoothly unlock all 3 elements	Give the STS	2.2 and initial centeris	ag pulca
using the button on the host box.	s. Give me 51.	5-2 and initial centern	ig puise
Views > Sensor: !Center A (STS-2)			
Views->System: *Main Current: 58 A *Input Volts: 17.30 *Temp: 20°C	7,600	ll sun, >11.5 no sun)	
*Ant. Current: N/A *Temp: 20°C *0330 SW Vers: 1.146 *Last Boot: 7015-07-6 15	1:26 *Last B	2015-03-25	TR: 27
*Ant. Current: N/A *Temp: 20-2 *Q330 SW Vers: 1:45 *Last Boot: 2015-07-8 18 *Views -> Clock: *Last Lock: 2015-03-78 18:737 *Phase *Clock Quality: 90% 71: Phase 15 4	error: 132 m - will chedo	later to verify	- 100% clock grallty
Height: 18:37.05 **GPS Date: **Peight: 18:37.05 **Latitude: 440 216 5.850	15/0 3/ 60 18 N *Longit	(given in DD/M	(M/YYYY)
✓ Views ->Sensors !Refresh *Boom Positions (within +/-15, i.e. within +/-1	.5 volts)		
$1 [8 2 \mathcal{D} 3 \mathcal{U}]$			
** If the Boom Positions are out - recenter sensor: Views ->Sensors	!Center A		
☑ Views ->Quickview ->chan 1,2,3 -> !Start Stomp test: ch 1: ☑ OK ch 2: ☑ OK			
ch 3: 🖾 OK (stomp seen?) ->!Stop			
Write values:			
ch 1: max min RMS			
ch 2: maxminRMS			
ch3 max min RMS			
(Values should be ~10,000 counts)			
Status -> Data Port Txfr -> Data4 *Packet buffer used (increasing?)	s) no		
Commands ->Baler Cmds Turn on baler power control			
!Send Baler Command (Baler should turn on) Do NOT			
Note: If the baler times out BEFORE finis	sning REPEAT		
Status -> Data Port Txfr -> Data4 *Packet Buffer (Decreases to zero)	YES NO		
*Data packets sent	_		
NOTE: If the Q330 does not transfer data to the Baler try clearing the Baler button in until the light turns solid red (~5 sec). Release the button and then, a Attention button once to shut down the Baler. Repeat the process once more a	fter the light b	egins to flash green, p	oress the
Status->General*Total ReSyncs			
Views -> Sensor: *Boom Positions (less than +/-15, i.e. less than +/-1.5 vo	lts)		
1_1512 2 1 3 4			
☐ App ->Make Docfile !OK to default filename Conf-YrMoDy-Q330 _	18		
SITE NOTES (Anything strange or notable)			

Checklist

```
Paperwork
Completed pages 1-3
Sensor
```

NA 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

MASOLAR: panel boxes closed

★AC: battery minder plugged in powered

Q330

∠ Completed paperwork on pages 1-2

∠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

Toventory

STS-2, 2x orange cables, breakout box

Q330 + baler

Q330 serial - baler + power cable

Q330 serial - power + ethernet cable

Q330 QNET + power + ethernet cable

Battery + battery tender

Small tub