	(Old powder magazthe) west of oro Mondo)
	Date 1/21/2015 Station 4100 A
	INSTALL SHEET (Q330 Surface Site with Wilan Telemetry) Local Date/Time: 18:00 AM MST GMT Date/Time: 18:00
	Field Team: Tanger, Gary, Daniel, Tom, Tamey
	GPS Location of Site:
	<u>Equipment</u>
	Sensor S/N: 9037 Sensor Type: 555-2 Sensor S/N: 91000186 99 DAM Q330 TagID: 1405
	Wilan IP: Q336 IP: 204.14.29.15 Wilan IP:
	Clock S/N: Breakout But: 1001385 C & trescala C: DYCA16127
	DIVOLOR , TOUTH
	_Check that compass declination is set to 8° E Switch abel: 4100 SwZ
	Place an arrow on the figure below showing where the declination marks is position on this compass (cross check against above to
	avoid sign errors) Aligned based on
	d = C+
	E 5 0 5 W See photo with mapirframe
	E W See ρ ^N υΤν W 1"
	mapirtrame
	Guralp 3T /Add layers of landscaping timber to provide clearance for this larger sensor
١	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 DAS (leave enough slack to allow you to reattach the alignment jig)
	Reattach the alignment jig and fill out the alignment table below (4 measurements). If initial orientation is off by more than 1 degree align and relevel before making final measurements.
	Trillium or STS2
	★ Sweep any dirt from the top of the concrete pad ★ Use a ruler and sharpie to scribe an alignment line on the concrete base for this sensor **The concrete base for this sensor** **The concrete base for this sensor* **The concrete base for this sensor** **The concrete base for this sensor** **The concrete base for this sensor* **
	Connect the sensor cable to control box and sensor Align the sensor using the mark and the alignment rod, level, repeat until level and aligned (fill out table below)
1	ALL SENSORS Cut a length of 2" fire hose to run from sensor vault to DAS enclosure
1.	Use a fish tape to pull the DAS to control box cable through the fire hose and connect both ends \(\sqrt{Unlock masses} \)
	Center masses
V	✓ Working with your partner verify the sensor is functional with a stomp test CInstall vault cover with screws
4	Cover vault with at least 2 layers of black plastic Bury sensor using sandbags filled with dirt, mound dirt ton top of vault cover, and add mulch to top

* N/A

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DUGL	Expe	riment
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Station Name	4100	A
Station Name	u	, ,

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)
		s might be again	

	Q330 Hardware Setup
/	Install solar panels on post using brackets and wood screws.
112 (Reconfigure guy wires if necessary
)	Place the dog house near the solar panel pole with the door facing downhill to allow water to drain
ď	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) 12.7 4
	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) $\mathcal{N}\mathcal{A}$
	Panel 2 output (V) N / N
	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)
	X 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 b LLD goes yellow
	Check here when the GI 5 DDD goes yellow
	Q330 Operations with the Clie (program Q330B147 on the SONY Clie PDA)
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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 Views -> Sensor: *Boom Positions (less than +/-15, i.e. less than +/-1.5 volts) !OK to default filename Conf-YrMoDy-Q330 ____ ☐ App ->Make Docfile

SITE NOTES (Anything strange or notable)

crientedion poor. Bused on roughorientetor from drift direction

Checklist

Paperwork

★ Completed pages 1-3

Sensor

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

SOLAR: panel boxes closed

X AC: battery minder plugged in powered

Q330

★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

STS-212x orange cables, breakout box Q330 + QNBT power & ethernet cable

Bales + serial power & 0330 cable

Battery + battery tender + poher codes

GPS transcelor + cable + power when

TTL - RS-232 converter + power cable + converter

2x terminal blocks + jumpor

5mall tub + lid

Net mark Switch

Infra sound microphone