OmniSite
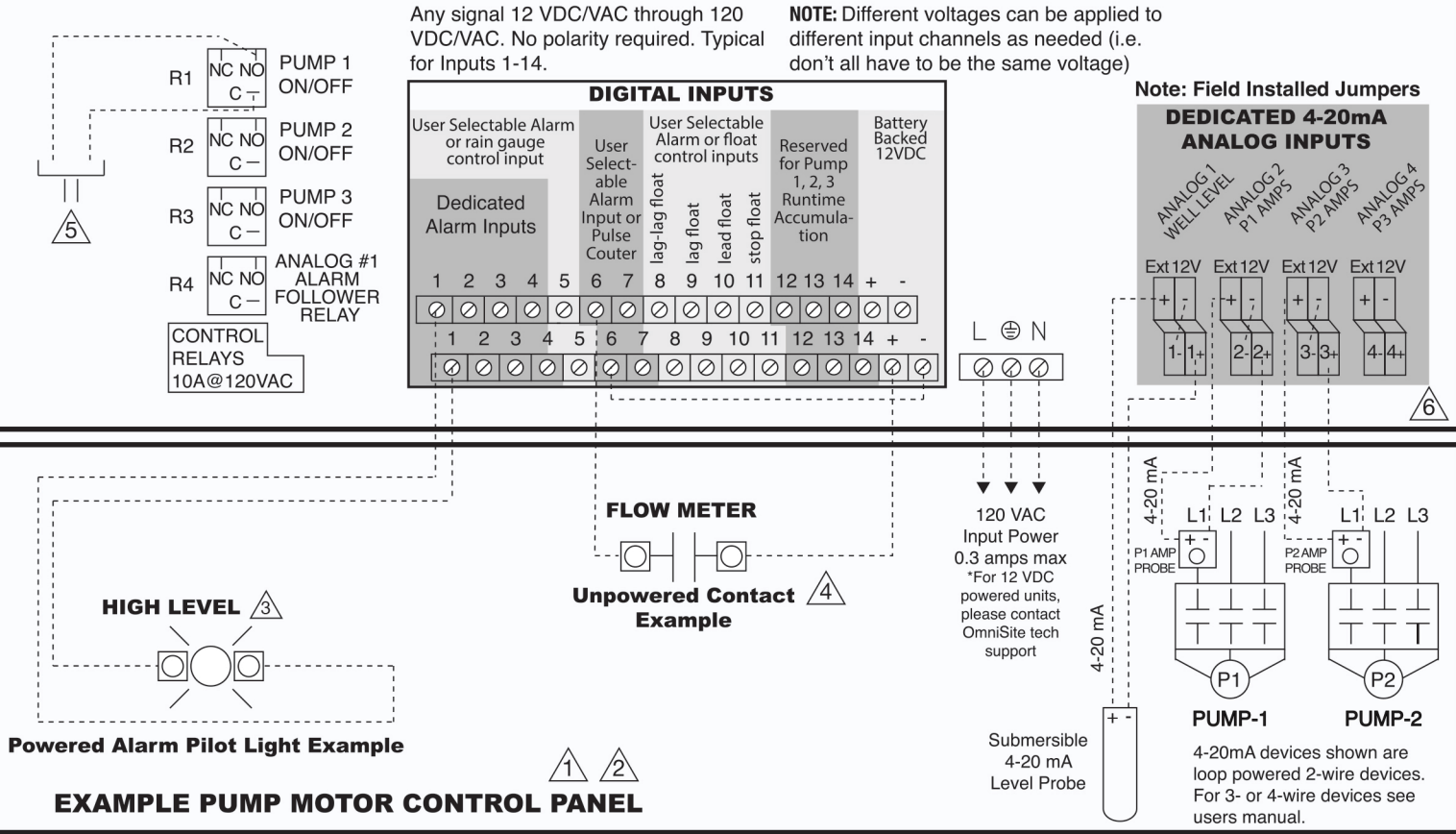
Cellular Remote Monitoring Device
Crystal Ball Pump Analyzer and Backup Pump Controller - Interface Connections

Any signal 12 VDC/VAC through 120 VDC/VAC. No polarity required. Typical for Inputs 1-14.

NOTE: Different voltages can be applied to different input channels as needed (i.e. don't all have to be the same voltage)

Note: Field Installed Jumpers

DEDICATED 4-20mA ANALOG INPUTS

R1 NC NO C —   PUMP 1 ON/OFF

R2 NC NO C —   PUMP 2 ON/OFF

R3 NC NO C —   PUMP 3 ON/OFF

R4 NC NO C —   ANALOG #1 ALARM FOLLOWER RELAY

CONTROL RELAYS 10A@120VAC

DIGITAL INPUTS

User Selectable Alarm or rain gauge control input — Dedicated Alarm Inputs

User Selectable Alarm Input or Pulse Counter

User Selectable Alarm or float control inputs — lag-lag float, lag float, lead float, stop float

Reserved for Pump 1, 2, 3 Runtime Accumulation

Battery Backed 12VDC

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | + | - |

L ⏚ N

ANALOG 1 WELL LEVEL | ANALOG 2 P1 AMPS | ANALOG 3 P2 AMPS | ANALOG 4 P3 AMPS

Ext 12V Ext 12V Ext 12V Ext 12V
+ -   + -   + -   + -
1- 1+   2- 2+   3- 3+   4- 4+

⟨6⟩

FLOW METER

Unpowered Contact Example ⟨4⟩

HIGH LEVEL ⟨3⟩

Powered Alarm Pilot Light Example

EXAMPLE PUMP MOTOR CONTROL PANEL

⟨1⟩ ⟨2⟩

120 VAC Input Power 0.3 amps max
*For 12 VDC powered units, please contact OmniSite tech support

Submersible 4-20 mA Level Probe

4-20 mA
L1 L2 L3
P1 AMP PROBE

4-20 mA
L1 L2 L3
P2 AMP PROBE

(P1) (P2)
PUMP-1 PUMP-2

4-20mA devices shown are loop powered 2-wire devices. For 3- or 4-wire devices see users manual.

Note your input settings in the table below for reference				
Input List				
Input	Description	Normal State: OFF	Normal State: ON	Alarm Delay 1-3600s
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12	PUMP 1 RUNTIME	X		X
13	PUMP 2 RUNTIME	X		X
14	PUMP 3 RUNTIME	X		X

Notes

⟨1⟩ This drawing is to be used for general information only. The control system supplier must determine proper connections to the OmniSite panel for each application.

⟨2⟩ Dashed lines indicate external field wiring by contractor.

⟨3⟩ This example shows connection to the high level alarm pilot light. The recommended procedure is to connect OmniSite field input terminals in parallel with alarm pilot lights as shown for fast, easy connections. This can be repeated for any other alarm pilot lights to be mounted on the other inputs.

⟨4⟩ This example shows connections to a flow meter pulse contact. If you are monitoring unpowered, dry contacts, you must use a voltage source to power the contacts so the OmniSite unit can see them change state. This example shows using the onboard 12 VDC OmniSite power supply to power any number of dry contacts available.
CAUTION: If you accidently connect the onboard OmniSite 12 VDC power supply to contacts that have 120 VAC, you will cause non-warranty product damage.

⟨5⟩ Connect normally open relay contact to respective motor starter hand-off-auto control switch. Connect into auto circuit of switch.

⟨6⟩ Use shielded cable for 4-20mA inputs. Ground shield at Crystal Ball and tape-off at field device.

Ask About the OmniAdvantage Plan

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- Lifetime Radio Upgrades
- Free Software Upgrades
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- GuardDog Setup & Priority Support
- Professional Training

Contact: (317)-885-6330 X4 or visit www.omnisite.com/omniadvantage for more details

SAFETY FIRST:
Always power off control panel and OmniSite unit when making wiring connections to avoid electrocution or accidental damage.

Not to scale