



Managing the time of field service technicians is a common challenge and often a costly one. Consultants are always looking for ways to mitigate site visits in order to save time and money. With telemetry (remote access), many activities that have required an onsite visit can now be performed, 24/7, from a remote location. **H2O Engineering offers three product-service options** to add telemetry capabilities to an existing system or a new build. With each remote access package, one can perform basic tasks from **starting and stopping** the sparge unit to more advanced capabilities such as **valve configuration, real-time data monitoring** and rapid field response upon **alarm notification**. \*\*Featuring Intelo-zone® Control Technology

## Desktop Interface

**SEQUENCE**  
START STOP

**FIELD LOGGING**  
BEGIN FINISH

**OVERVERRIDE**  
ADVANCE STEP  
SELECT STEP  
SUSPEND

**DISPLAYS**  
P&ID  
ALARMS  
TOTALS  
CONFIGURATION  
SYSTEM UTILITIES

**PROCESS CONDITION INDICATORS**

NO VALVES ENABLED	ZERO DWELL ALL VALVES	NO ELIGIBLE VALVES	ANALOG FAULT	BREAKER FAULT	LOW TEMP	HIGH TEMP	TEMP 61*
E-STOP PRESENT	REMOTE SHUTDOWN	LOW PRESSURE	HIGH PRESSURE	OZONE PRODUCTION	INTERNAL OZONE	REMOTE OZONE	

**SYSTEM STATUS**  
SEQUENCE MODE: STEP - 10 OF 20  
PRESSURE - 3 PSI FLOW - 3.6 CFM

**PRODUCTION STATUS**  
OZONE/AIR SPARGE 100% - VALVE: 10  
DWELL (Min Sec) - 45:00 REMAINING (Min Sec) - 41:08

**VALVE RUNTIME HOURS & HISTORY**

VALVE	TOTAL	OZONE	OXYGEN	AIR
1	0.37	0.32	0.05	0.00
2	0.29	0.28	0.00	0.00
3	0.17	0.17	0.00	0.00
4	0.25	0.23	0.01	0.01
5	0.25	0.25	0.00	0.00
6	0.33	0.33	0.00	0.00
7	0.30	0.30	0.00	0.00
8	0.25	0.25	0.00	0.00

**RESET VALVE RUNTIMES**  
RESET SELECTED RESET ALL

**EQUIPMENT RUNTIME HOURS**

02 CONTACTOR	3:70
03 CONTACTOR	3:70
00P CONTACTOR	3:69
AFB CONTACTOR	3:73
03 PRODUCTION	3:64

**MAINTENANCE DUE 7/2010**  
ENTER EQUIP HOUR RESET CODE ENTER MAINTENANCE RESET CODE

Real-time operating pressure and flow displays

Indicators for alarm notifications and warnings

Historical data logging for each valve

Real-time production status: dwell settings and time remaining per sparge step

Start and Stop controls

Individual run-time accumulators for maintenance scheduling

System override to control sparge sequencing

Automated maintenance notifications

Process displays for data and system management

**SEQUENCE**  
START STOP

**FIELD LOGGING**  
BEGIN FINISH

**OVERVERRIDE**  
ADVANCE STEP  
SELECT STEP  
SUSPEND

**DISPLAYS**  
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**PROCESS CONDITION INDICATORS**

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**SYSTEM STATUS**  
SEQUENCE MODE: STEP - 10 OF 20  
PRESSURE - 3 PSI FLOW - 3.6 CFM

**PRODUCTION STATUS**  
OZONE/AIR SPARGE 100% - VALVE: 10  
DWELL (Min Sec) - 45:00 REMAINING (Min Sec) - 44:12

**SEQUENCE CONFIGURATION - 20 STEPS**

STEP	VALVE	DWELL	TYPE	ENABLE	STEP	VALVE	DWELL	TYPE	ENABLE
1	1	10	AIR	YES	11	11	5	O3/AIR - 100%	YES
2	2	5	O2	YES	12	12	5	O3/AIR - 100%	YES
3	3	5	O3 - 100%	YES	13	13	5	O3/AIR - 100%	YES
4	4	5	O2/AIR	YES	14	14	28	AIR	YES
5	5	5	O3/AIR - 100%	YES	15	15	5	O3/AIR - 100%	YES
6	6	5	O3/AIR - 80%	YES	16	16	5	O2	YES
7	7	15	O3/AIR - 100%	YES	17	17	5	O3/AIR - 100%	YES
8	8	5	O3/AIR - 100%	YES	18	18	5	O3 - 100%	YES
9	9	5	O3/AIR - 10%	YES	19	19	45	O3/AIR - 100%	YES
10	10	45	O3/AIR - 100%	YES	20	20	5	O3/AIR - 100%	YES

**SET VALUES FOR ALL STEPS**

DWELL	PRODUCT	OZONE OUTPUT %	ENABLE	DISABLE
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CLEAR ALL IOD APPEND STEP DELETE STEP

Real-time sparge sequence configuration

Simultaneous sparge step configuration

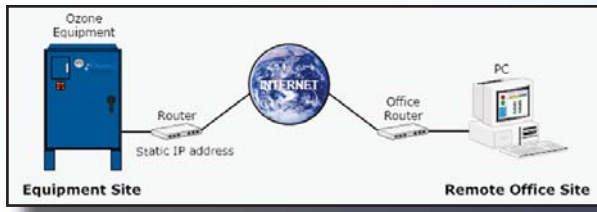
# Telemetry Systems



Telemetry Package	Description	Included in Package	Customer Responsibilities
TEL-100	Since this package is a SOFTWARE ONLY package, TEL-100 is ideal for those who would like to remotely connect to the equipment via internet, and already have a static internet address and an existing internet connection onsite.	<ul style="list-style-type: none"> <li>FactoryTalk® View Machine Edition (Rockwell Automation, FactoryTalk® View Machine Station Runtime)</li> <li>Remote Access Application© (Proprietary to H2O Engineering, Inc)</li> </ul>	<ul style="list-style-type: none"> <li>Proper configuration (port-forwarding or DMZ enabling) of the existing router</li> <li>Working directly with Rockwell to install FactoryTalk®</li> <li>Contacting H2O Engineering for RAA© support</li> </ul>
TEL-200	<b>TEL-200 offers two configuration options: hard-wired or wireless broadband.</b> This package is the best option for those who do not have an onsite internet connection and prefer to handle the majority of the set-up details.	<ul style="list-style-type: none"> <li>High-performance cellular router</li> <li>VPN Client</li> <li>FactoryTalk® View Machine Edition (Rockwell Automation, FactoryTalk® View Machine Station Runtime)</li> <li>Remote Access Application© (Proprietary to H2O Engineering, Inc)</li> <li>Configuration support (RAA©, VPN Client) by H2O Engineering</li> </ul>	<ul style="list-style-type: none"> <li>Proper configuration (port-forwarding or DMZ enabling) of the existing router</li> <li>Working directly with Rockwell to install FactoryTalk®</li> <li>Contacting H2O Engineering for RAA© support</li> <li>Activation of VPN Client</li> <li>Set-up and maintenance of wired broadband account</li> <li>Obtaining external antenna and pigtail and sending to H2O Engineering (wireless only)</li> </ul>
TEL-300	Known as H2O's "premium" telemetry package, this includes the same software and hardware needs as TEL-200. The key difference is our enhanced customer service support that accompanies it. By choosing this package, H2O Engineering will assist in handling some of the more cumbersome set-up details. <b>From VPN Client activation to purchasing a Verizon* Wireless card**, to obtaining the external antenna and pigtail, H2O is ready to help.</b>	<ul style="list-style-type: none"> <li>High-performance cellular router</li> <li>VPN Client</li> <li>FactoryTalk® View Machine Edition (Rockwell Automation, FactoryTalk® View Machine Station Runtime)</li> <li>Remote Access Application© (Proprietary to H2O Engineering, Inc)</li> <li>Configuration support (RAA©, VPN Client) by H2O Engineering</li> </ul> <p>H2O Engineering Responsibilities:</p> <ul style="list-style-type: none"> <li>Activation of VPN Client</li> <li>Purchase Verizon* Wireless card</li> <li>Obtaining external antenna and pigtail</li> </ul>	<ul style="list-style-type: none"> <li>Proper configuration (port-forwarding or DMZ enabling) of the existing router</li> <li>Working directly with Rockwell to install FactoryTalk®</li> <li>Contacting H2O Engineering for RAA© support</li> <li>Set-up and maintenance of wired broadband account</li> </ul>

\* Verizon Wireless is H2O Engineering's select wireless card vendor. VERY IMPORTANT: Customer is responsible for confirming that adequate Verizon service/signal is available at site location.  
 \*\* If customer prefers to use a different wireless service/card, Customer is responsible for the purchase, activation and contract of the preferred service

TEL-100 Configuration



Telemetry package pricing is based upon the customer's choice in software and/or hardware needs as well as set-up support. Please contact one of our Sales Engineers for assistance in deciding the best telemetry package solution for your site.

TEL-200/300 Configuration

