

FleetChiller Chiller Management Solution

Ayantra - a leading developer of remote asset management products - has created a solution for managing remote chillers.

The Challenge:

Remote chillers must be carefully monitored to ensure optimal performance. Facilities managers need to know:

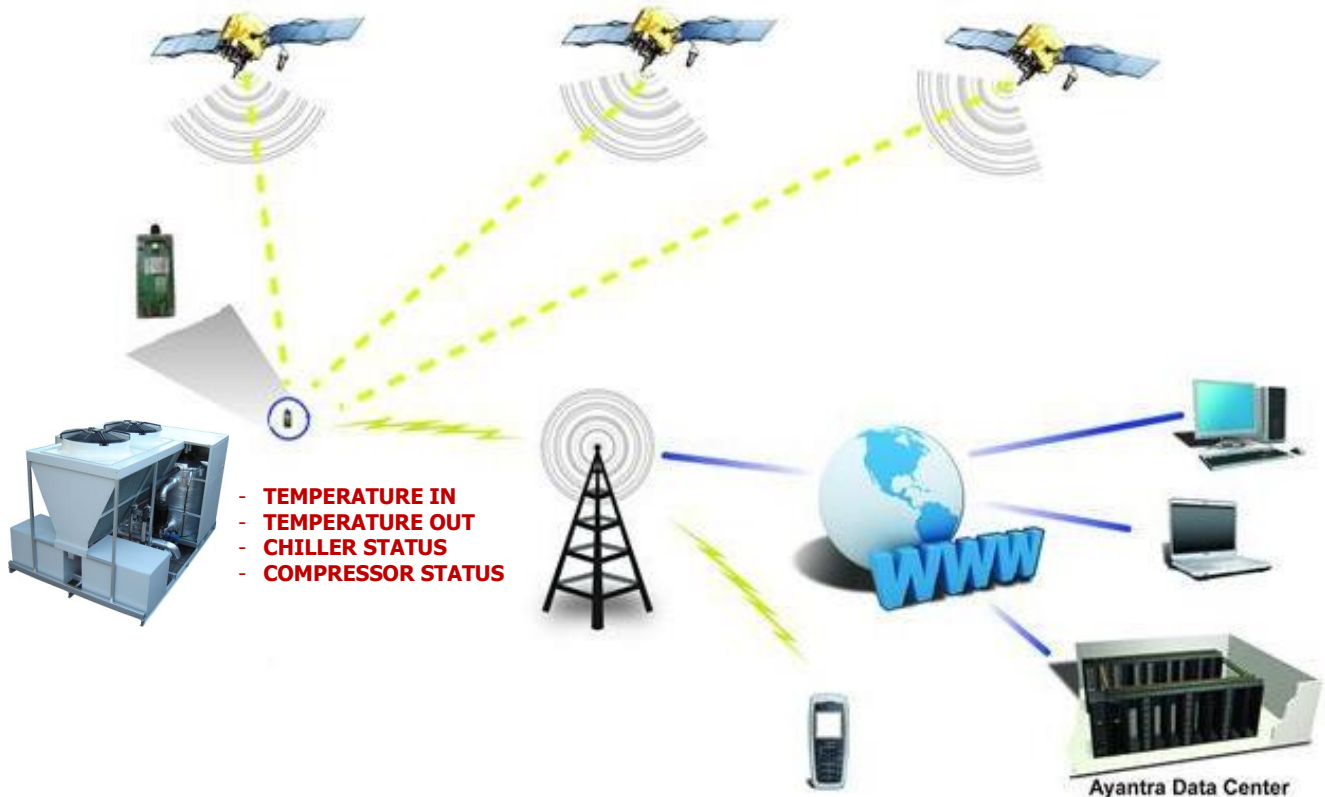
- Water temperature IN
- Water temperature OUT
- Chiller Status: ON or OFF
- Compressor Status: are both compressors sharing the workload, or is a single compressor doing all of the work?





Managing remote chillers is a difficult task. Ayantra can help.

The Solution:

Ayantra's FleetChiller is a web-based wireless solution for managing remote chillers. FleetChiller can manage any make or model chiller, and it easily supports hybrid fleets. **With the average cost of a truck roll at \$ 75 or more, remote chiller management can pay for itself very quickly.**



The total solution consists of:

-  **An Ayantra monitoring unit** installed on the chiller, typically equipped with two temperature sensors: one sensor reports Water Temperature IN, and the second one reports Water Temperature OUT.
-  **An Ayantra-provided website** to deliver Temperature Reports, Status Reports, Alert Notifications, and more.

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Key Features

- ❏ **STATUS UPDATES:** Status reports are automatically issued every fifteen minutes, and are available anytime via the web. Each status report includes:
 - ❖ Water Temperature IN and Water Temperature OUT
 - ❖ Chiller Status (ON or OFF)
 - ❖ Status of up to three additional user-configurable inputs (typically used for reporting the status of each compressor - ON or OFF)

- ❏ **TEMPERATURE SENSORS:** Up to two temperature sensors are available. Typically, one sensor is used for reporting Temperature IN, and the second sensor is used to report Temperature OUT.

- ❏ **TEMPERATURE THRESHOLDS:** Authorized users can set High and Low limits for Water Temperature IN and for Water Temperature OUT. Real-time Alert Notifications are immediately issued if any temperature limit is violated.

- ❏ **ALERT NOTIFICATIONS:** Real-time Alert Notifications can be issued as text messages sent to cell phones, and/or as email messages.

- ❏ **REAL-TIME UPDATES:** Users can collect up-to-the minute updates from any chiller, at any time.

- ❏ **"SERVICE DUE" REMINDERS:** FleetChiller can send "Service Due" reminders as each machine approaches its service interval.

- ❏ **JOBSITE UTILIZATION REPORTS:** FleetChiller automatically reports each chiller's utilization by Jobsite, enabling users to automate Billing Operations and improve Project Management Reporting.

- ❏ **HISTORY LOG:** FleetChiller provides a History Log to enable users to view each chiller's performance over the last twelve months.

Remote Control Options

FleetChiller includes two digital outputs that can be activated from the website, thus providing the capability to send commands to the remote machine. Typical applications include "Remote Start" and "Remote Stop" to enable fleet managers to remotely operate or test a remote chiller, without dispatching a technician onsite.

Hardware Specifications:

❖ Physical:	4.75" x 2.60" x 1.40"
❖ Power:	8 - 32 volts DC
❖ Power Draw:	
Active:	75 mA (typ) @ 12V
PowerSave:	25 mA (typ) @ 12V
❖ Built-in backup battery	
❖ Environment:	
Monitoring unit - Operating:	-20°C → +60°C
Monitoring unit - Storage:	-45°C → +85°C
❖ Humidity:	0 - 95 RH @ 40C
❖ I/O Ports:	
Input Ports:	6 Inputs (4 user-configurable)
Output Ports:	2 Outputs (both used for Remote Start)

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Note: this product incorporates unique Patented and Patent-Pending technologies developed by Ayantra
Specifications subject to change 562CHL - ver 3.2 (May 2009)