CYPRESS
ENVIROSYSTEMS

Web Service

User Manual

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1.0 Introduction

The Cypress Monitoring System is a combination of Cypress field devices and a Blue Box Server (BBS) used to provide a wireless monitoring system that can stand alone or be integrated with an existing building or facility automation system.

The Cypress monitoring system can be setup one of two ways:

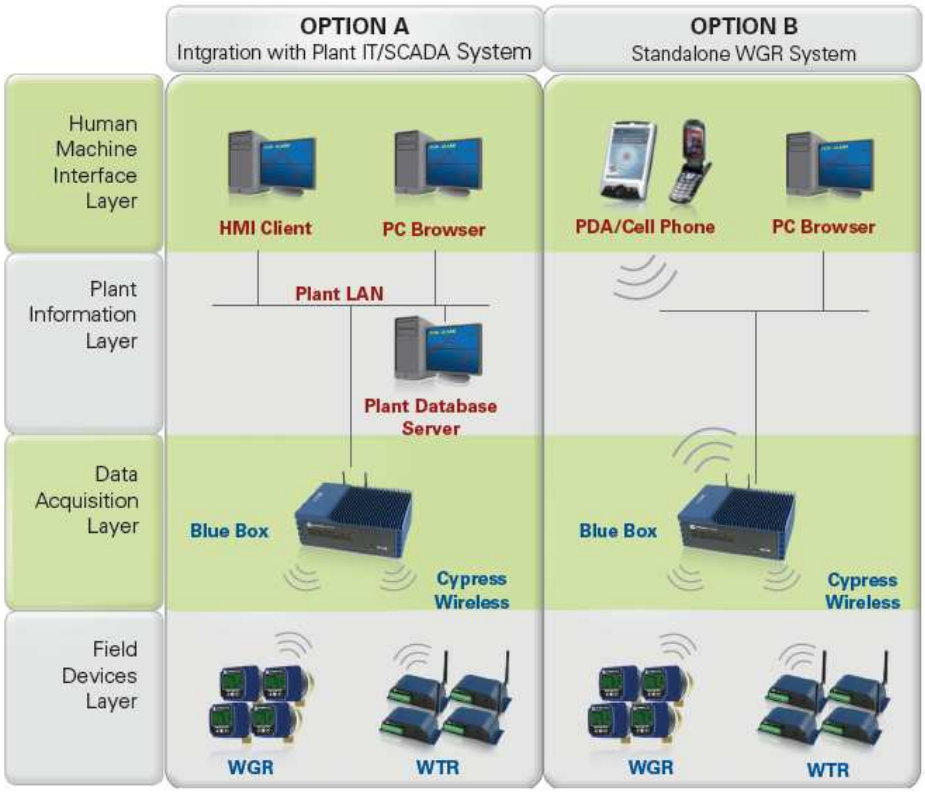

Figure 1. Cypress Monitoring System Setup Options

Data collected using Cypress field devices is wirelessly transmitted to and stored on the BBS. Data can be viewed and extracted from the BBS three ways:

- Web Service
- OPC Interface
- The Cypress Web Console

This manual describes how to access the BBS through the web service.

2.0 Operation of the Web Service

Any client machine can access the web service through the following service on the server: http://localhost/wgrsitewebservice/service.asmx

Below is a list of the API calls that can be used to extract data via the web service. For WSTMs, the inlet, condensate outlet, and delta temperature are treated as 3 individual node IDs.

2.1 GetWGRData1 (StartDatetime, EndDatetime, NodeID)

StartDatetime — Start date and time of the data to retrieve from the database.
Format: “dd/mm/yyyy hh:mm:ss AM/PM” as a string

EndDatetime — End date and time of the data to retrieve from the database.
Format: “dd/mm/yyyy hh:mm:ss AM/PM” as a string

NodeID — Node ID of the data to retrieve from the database.
If NodeID equals 0, then data from all nodes will be returned.

Data will be returned as a string: [Timestamp],[NodeID],[Reading].
Rows are separated by “;” and columns are separated by “,”.

Example use:
Command sent - GetWGRData1(‘7/19/2008 11:48:23 PM', ‘7/19/2008 11:58:23 PM',18)
Return string - '7/19/2008 11:48:23 PM',18,12.68528; ‘7/19/2008 11:58:23 PM',18,13.68528;

2.2 GetWGRData (StartDatetime, EndDatetime, NodeID)

This is a legacy function, and is only used for backward compatibility with older software versions.

2.3 GetWGRNodeStatus1 (StartDatetime, EndDatetime, NodeID)

StartDatetime — Start date and time of the data to retrieve from the database.
Format: “dd/mm/yyyy hh:mm:ss AM/PM” as a string

EndDatetime — End date and time of the data to retrieve from the database.
Format: “dd/mm/yyyy hh:mm:ss AM/PM” as a string

NodeID — Node ID of the data to retrieve from the database.
If NodeID equals 0, then data from all nodes will be returned.

This function will return (as a string) the node status which includes the battery status (as a percentage) and any error codes in the format - [TimeStamp], [NodeID], [BatteryStatus], [Error].

Rows are separated by “;” and columns are separated by “,”.

*An error code greater than 0 implies the WGR/WTR had an error and cannot determine the reading.

Example use:
Command sent - GetWGRNodeStatus1(‘7/19/2008 11:48:23 PM', ‘7/19/2008 11:58:23 PM',18)
Return string - '7/19/2008 11:48:23 PM',18,100,0; ‘7/19/2008 11:58:23 PM',18,100,0;

2.4 GetWGRNodeStatus (StartDatetime, EndDatetime, NodeID

This is a legacy function, and is only used for backward compatibility with older software versions.

2.5 GetWGRNodeSettings(NodeID)

NodeID — Node ID of the data to retrieve from the database.
If NodeID equals 0, then data from all nodes will be returned.

This function will return the node settings of the node requested (or all nodes if the node ID equals 0) in the format - [NodeID], [Description], [SampleRateSec],[Units], [MinValue], [MaxValue], [LCL], [UCL], [SMSAlarm], [LCL_Tripped], [UCL_Tripped], [Excursion_Limit], [DeviceID]

Rows are separated by ";" and columns are separated by ",".

Example use:
Command sent - GetWGRNodeSettings(1)
Return string - 1,'Test Node 1',600,PSI,0,100,10,90,TRUE,FALSE,FALSE,3,1

3.0 Support

For additional support, please contact us directly.

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