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FS-8705-37 – Honeywell HUS CCTV System Driver

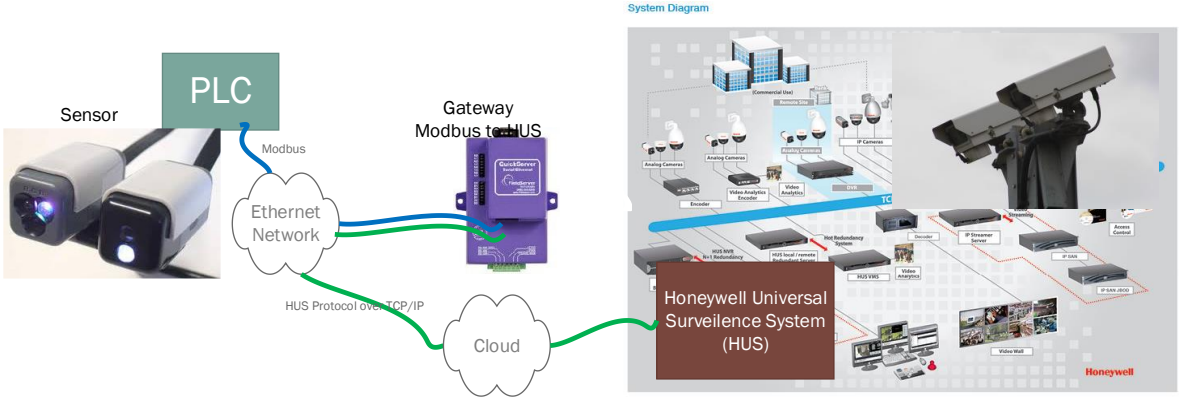
DATASHEET – Rev 3

DESCRIPTION

Augmenting human operators and improving their productivity with the automatic operation of a CCTV and Surveillance system. Providing an interface which allows the DCS Control System at the Refinery to perform automatic actions on the HUS

This Ethernet Driver allows a Honeywell HUS System to be driven to camera presets based on data sent from an external system. By Linking this driver to other gateway drivers, the HUS system can be driven by Modbus, BACnet, Rockwell, GE, Omron, JCI and many other automation systems.

The Driver supports up to 500 cameras. It can be configured in 2 styles. In one style the interface between the external system is minimal – Each Camera has 64 bits associated with it. Each bit can be configured for a different preset. Now the remote system simply turns bits on/off to drive cameras to presets. In the second style, more control is provided to the remote system – it can not only trigger cameras but it has full control over the preset parameters – they do not need to be configured in advance.



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CONNECTION FACTS

FIELDSERVER MODE	NODES	COMMENTS
Client	1	One gateway is required for each Honeywell HUS system you connect to
Server	0	Not supported or documented.

FORMAL DRIVER TYPE

Ethernet TCP/IP

COMPATIBILITY

FIELDSERVER MODEL	COMPATIBLE
FS-2010/2011/4010 (Legacy)	No
FS-35 Series	Yes
FS-QS Series	Yes

PROTOCOL SERVICES SUPPORTED

PROTOCOL SERVICE	SUPPORTED
Connection – Configurable TCP Port	Yes
Subscription – Single	Yes
Subscription – All	Yes
Alarm Notification	Yes
Alarm Response	Yes
Heartbeat	yes
Disconnect	Yes
Subscription Notify	Yes
Connect Ack	Yes

MAPPING PRESETS AND TRIGGERS

A CSV configuration files (actions.csv) is prepared to control the mapping of triggers, cameras and presets. For each of 500 cameras. 64 Triggers can be defined. For each trigger, the required preset is specified.

PRIORITY ACTIONS

In some situations, it's possible that a number of competing triggers operate on the same camera. Two choices are available. 1) First trigger wins – Trigger must be cleared before next action is triggered. 2) A priority system can be implemented. In this system, if multiple triggers are active for a camera, the camera will be driven to its priority position. This is also controlled by a CSV configuration file.

RETRIES AND SUCCESS/FAILURE REPORTING

The HUS will request retransmission of messages if any in the sequence are missing. The Driver will resend messages is requested.

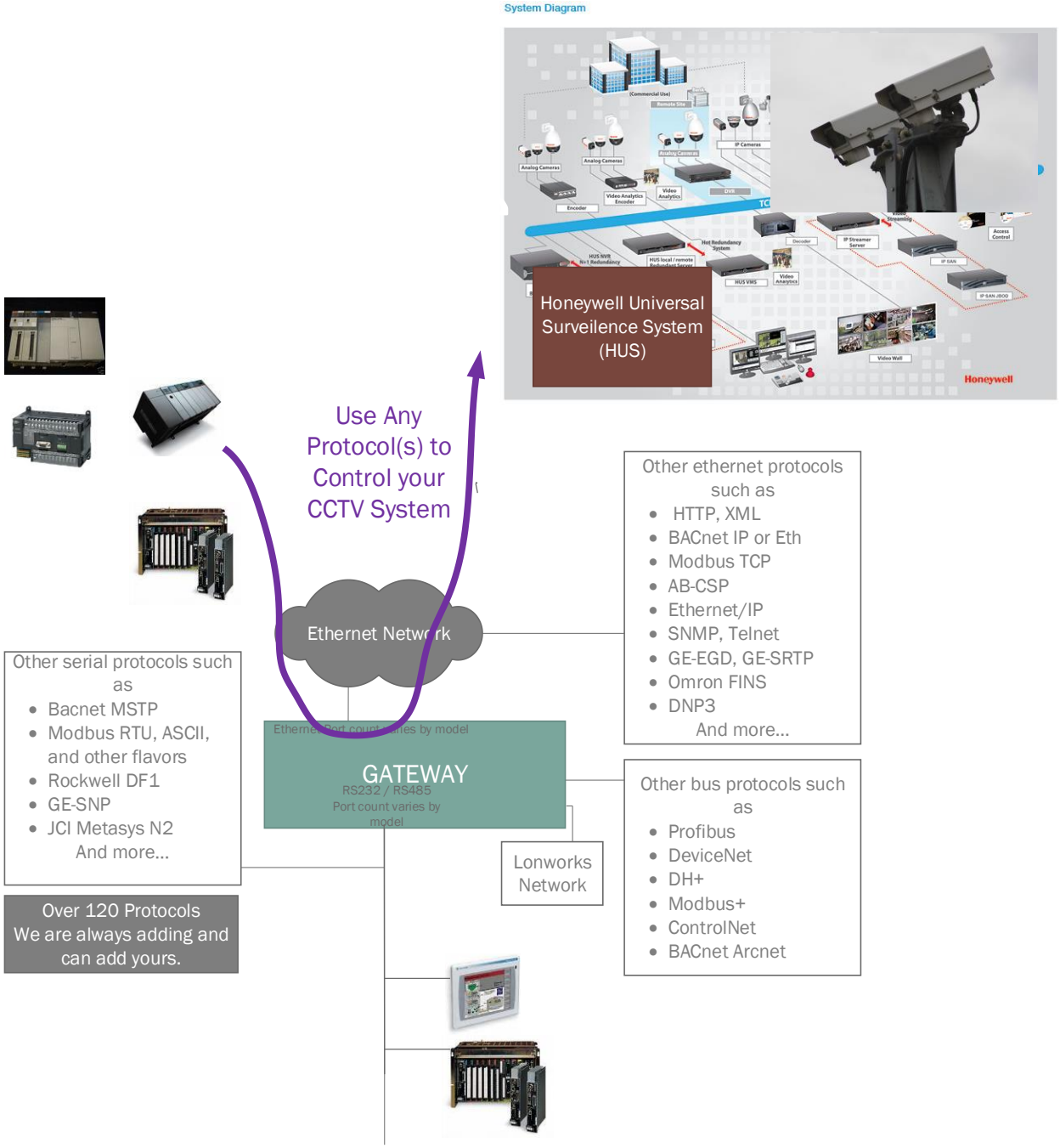
When the HUS receives an alarm notification, it will drive the relevant camera to the relevant preset. It then sends a success / failure code back to the driver. This code is available for monitoring by a remote system.

DEVICES TESTED

DEVICE	TESTED (FACTORY, SITE)
Honeywell HUS (HUS-XPRO-RDB-E)	Tested at Honeywell for FAT of Customer Project.

CONNECTION CONFIGURATIONS

Multiple upstream protocols and connection supported. See list of FieldServer Drivers.



CUSTOMER SUPPORT

Honeywell HUS CCTV Driver for FieldServer was developed by Chipkin, and we are proud to provide support for our products. For technical support, sales and customer service, please call us at 1 (866) 383-1657.

Thanks for choosing Chipkin's products and integration services to meet your building and industrial automation requirements!

Chipkin™ is a building and industrial automation protocol expert. We develop, configure, install and support gateways (protocol converters), data loggers and remote monitor and controlling applications. Founded in October 2000, Chipkin provides expert solutions for converting BACnet®, Modbus®, and LonWorks®—to name just a few—and enabling interfaces for HVAC, fire, siren, intercom, lighting, transportation and fuel systems. The high-quality products we offer (including those from other vendors) interface with Simplex™, Notifier™, McQuay™, GE™ and many others—so you can rest assured that we will select the most appropriate solution for your application.

With Chipkin you are buying a solution. Our configuration expertise in this field combined with free BACnet and other tools ensure your success; and our customer support via phone, email and remote desktop tools means that we are there when you need us. Chipkin is a small responsive company, and we live or die by the quality of our service—and with offices in two time zones—we can provide support when you need it. Give us a call now!

Sales and Customer Service

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REVISION HISTORY

DATE	RESP.	DRIVER VERSION	DOCUMENT REVISION	COMMENTS
14 Dec 2018	PMC	0.00	0	Created
21 Jan 2019	PMC	1.00	1	As Released
8 Feb 2019	PMC	8.00	2	Released
7 Jun 2021	YC	8.00	3	Updated to latest template