EDD Operating Manual





Searchpoint Optima Plus Electronic Device Description (EDD)

Content

1 Introduction	. 1
2 Required software and components	. 2
3 Establish connection with the device	.3
4 Program menu structure and items	. 4
5 Configure/Setup	. 6
5.1 User Login	. 6
5.2 Device Setup	. 8
5.2.1 Gas Configuration	. 8
5.2.2 Test1	10
5.2.3 Calibrate	13
5.2.4 Assembly Details1	15
5.2.5 Device Info1	17
5.2.6 Unit Status 1	17
5.2.7 Live Gas Trend	19
5.2.8 About	20
5.2.9 Device Setup	20
5.3 Device Diagnostics	23
5.4 Process Variables	25

1 Introduction

The purpose of this document is to support the plant operators with commissioning, operation, configuration and diagnosis of the Searchpoint Optima Plus Infrared Gas Detector, which will be in the following called Optima Plus.

The Optima Plus is an infrared point hydrocarbon gas detector certified for use in potentially explosive atmospheres. The unit's infrared detection principle offers the fastest speed of response and fail-to-safe operation, ensuring that your plant is compliant, your personnel are protected and your production process can deliver maximum uptime. The IR principle allows detection without background oxygen, as required for bead type detectors, while the plug-in handheld device allows fault diagnosis, change of gas type and event log access.

For the HART interface, Honeywell Analytics has created an electronic device description (EDD), which describes all parameters, methods and menus for operating the device through the HART interface. Such EDD-file can be used by so-called host software, which is interpreting the EDD and offering the content to an operator.

The Optima Plus EDD covered by this manual is intended to be used with the AMS Device Manager. Emerson AMS Device Manager is a software package used to commission and maintain Optima Plus device.

WARNING

For safety reasons this equipment must be operated by qualified personnel only. Read and understand the instruction manual completely before operating or servicing the equipment. For information regarding the Optima Plus device, please check the <u>Optima</u> Plus Device Technical Manual

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2 Required software and components

In order to be able to use the Optima Plus HART EDD and to go online with the device you need the following components:

- AMS Revision 12 Device Manager (it represents the EDD-host application. For information about the AMS software please contact Emerson Process Solutions http://www2.emersonprocess.com/)
- Go to the Honeywell Analytics link: http://www.honeywellanalytics.com/en/products/Searchpoint-Optima-Plus and then go to Software and download Honeywell Analytics Optima Plus HART EDD AMS Installation Package
- HART modem (RS232 or USB interfaces of the companies Endress+Hauser, Microflex or MACTek).

Please make sure that you install a HART 7 DCS system (see AMS EDD-host above), since Optima EDD is not compatible with older versions like HART 5 and HART 6.

3 Establish connection with the device

After completion of §2, please follow the steps described below for establishing the connection with your device using a serial HART modem. If you are using other EDD host application, the further presented screens might differ:

- 1. Launch the AMS host application
- 2. Connect the serial HART modem (and eventually the HART Multiplexer) as described in the Optima Plus device manual
- (http://www.honeywellanalytics.com/en/products/Searchpoint-Optima-Plus)3. Connect the modem connector to the PC COM port (serial modem) or USB port (USB Modem)
- 4. Right-click on "HART Modem" in the AMS program and select "Scan All Devices" to add the Optima EDD-HART and to connect device:



5. The connected device will appear in the tree. The name can be changed by using the "Rename" option (see menu list in §4):



4 Program menu structure and items

By right-clicking on the device name you will find a menu list. Some menu items are characteristic for EDD and some for host (in the shown example AMS Device Manager):



EDD characteristic menu items:

- Configure/Setup (offers information regarding the complete device parameters which can be set according to your measurement application and real time information about the current status of the device)
- Device Diagnosis (offers information for maintenance engineers regarding the faults, warnings, alarms, etc)
- Process Variables (offers information regarding the device operation status)

AMS host characteristic menu items:

The other items shown in the figure above are host characteristic items:

- Compare
- Clear Offline
- Scan Device
- Calibration Management
- Rename
- Unassign
- Audit Trail
- Record Manual Event
- Drawings/Notes
- Help

In the following pages we will describe the EDD characteristic items. For more information regarding the host specific items, please check the <u>AMS Documentation</u> or go to "Help" item:

🔗 AMS Device Manager Books Online
Hide Back Forward Home Print
Hide Back Forward Home Print Contents Index Search Favorites AMS Device Manager Books Online AMS Device Manager Books Online Image: Search Search Favorites Image: Search Getting Started Image: Search Basic Functionality Image: Search Device Connection View and Device Explorer Image: Search Overviews Image: Search Search Image: Search Search
 Windows and bladgs Procedures Device Information Drawings/Notes Plant Locations Hierarchy Device List Audit Trail Alet Monitor Tag Search Database Operations
Security System Interfaces
Calibration Management SNAP-ON Applications
4

5 Configure/Setup

After following the steps 1-5 from §3, please double click on device name to open the startup screen. This will contain the three main function groups which allow you to configure and monitor the device:

- Configure/Setup
- Device Diagnostics
- Process Variables

5.1 User Login

Login level is determined according to the passcode number. The Optima Plus Electronic Device Description (EDD) has three security levels. Some of the screens in this manual are visible only after password has been entered.

The Optima Plus Device EDD security levels are:

- Default (read only, allows the user to view the software settings, no password required)
- Level 1 (entering a level-1 password will allow the user to view and change the software settings). This is relevant for maintenance engineers. The standard 8 digits password is provided by Honeywell and can be changed by user
- Level 2 allows an advanced view of software settings and is relevant for Honeywell Field Engineer only.

To view the security level you are entitled to access, select "Configure/Setup/User Login" to login:

11/16/2015 16:39:00.020 [Optima+ Rev. 1]		
File Actions Help		
Configure/Setup General User Login Configure/Setup User Login Device Setup Configure/Setup Configure/Setup Device Diagnostics	ogin	
The second secon		
Time:	Current S	iend Close <u>H</u> elp
Device last synchronized: 16/11/2015 16:49:57		1.

- User (displays the user's current access level)
- User Login button (click on the User Login button to enter a passcode)
- Now choose your security level and click "Next":

💐 User Login - Optima+ Rev.1			23
User Login C Default C Level 1 C Level 2			
	Next >	Cancel	Help

• In case of security level 1, please enter the eight digits password:

💱 User Login - 11/16/2015 16:39:00.020			83
Enter Password			
••••••			
	Next >	Cancel	Help

• Now you are logged in and you can click "Next" to see the settings:

💱 User Login - Optima+ Rev.1	L		23
Login Successful			
	Next >	Cancel	Help

5.2 Device Setup



After following the steps 1-5 from §3, please double click on device name to open the startup screen. This will contain the three main function groups which allow you to configure and monitor the device (Configure/Setup, Device Diagnostics and Process Variables)

• "Device Setup" can be seen in "Default" security level as follows:

Configure/Setup	Unit Status Live Gas Trend About Device Setup
Configure/Setup	

• "Device Setup" can be seen in "Level 1 and 2" security level as follows:

Configure/Setup	Gas Configuration Test Calibrate Assembly Details Device Info Unit Status Live Gas Trend About	Device Setup
⊡-@ Configure/Setup User Login → Device Setup		

In the following pages, all menus above will be presented. Depending on your security level, you may not see some of those screens.

5.2.1 Gas Configuration

The "Gas Configuration" function is available for the security level 1 and 2. It allows the maintenance engineers examination of all faults, warnings, and informational messages.

If any alarms or warnings have been activated, a check mark will be displayed in the square adjacent to it. A detailed description of the alarms and warnings can be found in the <u>Optima</u> <u>Plus Device Technical Manual</u> §14.2.

S Optima+ Rev.1 [Optima+ Rev. 1]				
File Actions Help				
Configure/Setup ^G	as Configuration Test Calibrate Assembly De	tails Device Info Unit Status Live Gas Trend	About Device Setup	
Configure/Setup	Range Details			
Device Setup	PV URV 18000.000			
	J 18000.000			
	0.000			
	- Alarm Threshold Configuration			_
	Alarm Threshold			
	30			
	Healthy	Active Faults[8-15]	Active Faults[16-23]	
	Active Faults[0-7]	Ubscured optics(M)	Poor signal quality (M)	
	Temperature too Low	External obscuration	Insufficient data	
	Temperature too Low	Movement in beam	Undiagnosable problem	
	Temperature too High	Lamp output(M)	Alam (M)	
	Temperature shock	Lamp A output Low	Over range threshold exceeded	
	Bad 24 V Supply (M)	Lamp B output Low	Alam threshold exceeded	
	Bad 4-20 mA loop (M)	Lamp A output noisy	Hardware Failure	
	Negative gas reading (M)	Lamp B output noisy	ROM failure	
	Zero track limit(M)	Active Faults[32-39]	Active Faults[40-40]	
	Active Faults[24-31]	Internal supply failure	Instrument restarted (M)	
	RAM failure	Temperature sensor failure	Reserved	
	EEPROM failure	Pyro electric detector 1 failure	Reserved	
	Uncalibrated	Pyro electric detector 2 failure	Reserved	
	Invalid gas table	Pyro electric detector 1 noisy	Reserved	
	Unknown software failure	Pyro electric detector 2 noisy	Reserved	
	Unknown assertion failure	Amplifier 1 gain too high	Reserved	
	Bad switch executed	Amplifier 2 gain too high	Reserved	
	Bad decision executed	Device Diagnostic Status 0	Device status	
	Ext dev status	Simulation active	Primary variable out of limits	
	Maintenance required		NV Applies Character Saturated	
	Critical Power Failure	Watchdog reset evec ited	PV Agalog Channel Eved	
		Voltage conditions out of range	More status available	
		Environmental conditions out of ra	Cold start	
		Electronic failure	Configuration changed	
			Field device malfunction	
	Active Index			
	5			
	Active Gas Table Butane			
	New Gas			
Configure/Setup	J			
Device Diagnostics	Choose Gas			
Process Variables	Accept Choose Gas Table			
Tir	me: Current			Send Close <u>H</u> elp

The gas configuration function provides following features:

- Range Details (the upper and lower limits shall be entered here). The Range and options change according to Optima Plus:
 - PV URV (sensor's full scale value)
 - PV LRV (sensor's lower range value)
- Alarm Threshold Configuration (the upper and lower limits shall be entered here)
- Operating Mode (six operating modes are displayed in this area)
 - Healthy
 - Warning
 - o Fault
 - o Alarm
 - \circ Inhibit
 - Forced
- Active Faults 0 40 (if any faults occur, they are displayed in the square adjacent)
- Ext dev status (the corresponding warning, fault or action is displayed here)
- Device Diagnostic Status 0 (data indicating that the device has detected conditions relating to its operating status, validity of variable and internal processes)
- Device Status (data indicating that the device has detected conditions relating to its hardware and external processes. Eight device statuses are displayed in this area)
- Gas Selection (the name of the gas will then be displayed here)
- Active Index (the gas calibration Index is displayed here)
- Active Gas Table (the name of the gas is displayed here)
- New gas (name of the new gas to be in use)
- Choose gas Button (the options in the dropdown box are:
 - First gas
 - Last gas
 - Next gas
 - Previous gas
- Accept Choose Gas table (confirm the chosen gas)

5.2.2 Test

Other important item in "Device Setup" is "Test". The test function is available for the security level 1 and 2 and provides following features:

💱 Optima+ Rev.1 [Optima+ Rev. 1]			
File Actions Help			
Configure/Setup	Gas Configuration	Test Calibrate Assembly Details Dev	vice Info Unit Status Live Gas Trend About Device Setup
Configure/Setup			1
User Login		Inhibit	
		mA loop test	
		Self test	
		Device reset	
		Simul. Alarm Fault	

- Inhibit Device Button (this allows the functioning of the Optima Plus to be tested without creating an external alarm):
 - o Start Inhibit
 - End Inhibit

💐 Inhibit - Optima+ Rev.1		23
Inhibit ON or OFF		
	Next > Cancel	

• mA loop Test Button (a test will be started to check the connections and cabling):

💱 mA loop test - Optima+ Rev.1		83
Waming: Alam signals may be generated		
	Next > Cancel	Help

• The analog output shall be chosen:

💱 mA loop test - Optima+ Rev.	1	83
Choose analog output level		
	Next > Cancel Help	

Self Test (this action instructs the unit to complete a self test cycle):

(this action instructs the unit to cor	mplete a self test cycle):
💱 Self test - Optima+ Rev.1	23
About to perform self test	
Next >	Cancel Help

- o After clicking "Next", a "Performing Test" and then a "Self Test ok" window will appear.
- Device Reset Button (selecting this option forces the unit to reboot):

💐 Device reset - Optima+ Rev.1			X
About to perform device reset			
	Next >	Cancel	Help

- o After clicking "Next", a "Device Reset ok" and then a "Device will return to normal operation" window will appear.
- Simulation Alarm/Fault Button (alarms and faults can be simulated to verify that the • sensors are operating properly without requiring conditions that trigger actual alarms or faults. A simulation, in effect, forces a sensor into inhibit mode. Simulations can be accomplished either at the sensors with an appropriate test gas or remotely through the EDD. The EDD display responds just as it would with a real alarm or fault). The possible test simulations are Alarm, Warning, Fault. To end simulation, choose "End Simulation":

🧏 Simul. Alarm Fault - Optima+ Rev.1	83
Simulate Alarm or Warning or Fault	
Next > Cancel Help	

5.2.3 Calibrate

Other important item in the "Device Setup" is "Calibrate". It is available for the security level 1 and 2:



The calibration function provides following features:

• Inhibit On/Off Button (this allows the functioning of the Optima Plus to be tested without creating an external alarm)



• Start Bump Test button (pressing this button will allow functional response checks to be initiated, then please click next)

👯 Bump Test - Optima+ Rev.1			23
Bump Test ⓒ Start Bump Test			
	Next >	Cancel	Help
<i>i</i>			
💱 Bump Test - Optima+ Rev.1			23
Apply bump Test - Optima+ Rev.1 Apply bump test gas. Press OK when gas reading is stable Gas Reading : 0.000000 %LEL			8

- Gas Concentration (the gas concentration is based on the current configurations)
- mA loop Calibration Button (pressing this button will allow the milliamp output parameters to be changed from the factory settings):

💐 mA Loop Calibration - Optima+ Rev.1	l		23
Connect reference meter			
	Next >	Cancel	Help
💐 mA Loop Calibration - Optima+ Rev.1			8
MA Loop Calibration - Optima+ Rev.1 Enter meter value			×
The second secon	3.96 mA		8
The second secon	3.96 mA		8

• Gas Calibration Button (pressing this button will allow the gas calibration procedure to be initiated, then please click next)

🧏 Gas Calibration - Optima+ Rev.1			83
Warning: Gas readings may be generated	I		
	Next >	Cancel	Help

💱 Gas Calibration - Optima+ Rev.1		83
Apply Zero Gas Press OK when Gas Reading is stable Gas Reading : 0.000000 %LEL		
	Next > Cancel Help	

o Choose span calibration if required

🧏 Gas Calibration - Optima+ Rev.1	83
Zero Calibration Successful! Exit without Span Calibration?	
Next > Cancel Help	

o If span calibration required, proceed follow the next instructions:

💱 Gas Calibration	23
Apply Butane gas between 30.00 %LEL and 80.00 %LEL. Current Gas Reading 0.00 %LEL	
50.00000	
Next > Cancel	Help
e	
💐 Gas Calibration	23
Press OK when Gas Reading is stable Gas Reading : 50.000000 %LEL	
Next > Cancel	Help

• Calibration Info (information regarding the current calibration state is displayed here)

5.2.4 Assembly Details

The "Assembly Details" is available for the security level 1 and 2 and contains following information:

Configure/Setup	Gas Configuration Test Calibrate Assembly Details Device Info Unit Status Live Gas Trend About Device Setup
E- Configure/Setup	Config Revision
Device Setup] 1219
·	HART Address
	0
	Description
	777777777777
	Assembly Date
	01/01/1900
	Assembly Number
	14539485
	Device Tag
	OPTIMA
	Transmitter ID
	TRANSMID
	Field Engineer Data
	Zero Factor
	1.27100790
	Auto Zero Factor
	1.27100790
	Span Factor
	0.42413950
	Ratio Change
	0.00917931
	Ch A1
	35318
	Ch A2
	43434
	Ch 81
	23518
	Ch 82
	36259
	Pead band On?
	Ves v
	Gas Ellar On 2
	Beld Temperature
	43.79
	Tamet Current
	4,00
	Measured Current
🙀 Configure/Setup	4.00
	Analog 5v Bail
Device Diagnostics	5.07
A Process Variables	Anden 24v Pril
In the case of the	24.35
<u>Š</u>	
	Time: Coursest
	Send Llose Help

- Config Revision (provides information about the configuration version number)
- HART Address (defines the protocol address of the unit when connected into a multidrop digital network, used only in specialist applications)
- Description (a user-configurable space, typical used to display such information as the location of the sensor)
- Assembly Date
- Assembly Number (a manufacturer's reference number)
- Device Tag (a user-configurable space, typical used to display the equipment type)
- Transmitter ID (this can be set if a long tag is used for HART addressing)

Information only for security level 2, Honeywell Field Engineers:

- Zero Factor
- Span Factor
- Ratio Change
- Ch A1
- Ch A2

- Ch B1
- Ch B2
- Dead band On (yes/no)
- Gas Filter On (yes/no)
- Field Temperature (device temperature)
- Target Current (reference current value)
- Measured current (measured current value)
- Analog 5v Rail

5.2.5 Device Info

The "Device Info" item is available for the security level 1 and 2 and provides information about the HART settings:

Configure/Setup	Gas Configuration Test Calibrate Assembly Details Device Info Unit Status Live Gas Trend About Device Setup
Configure/Setup □-@ Configure/Setup User Login → Device Setup	Gas Configuration Test Calibrate Assembly Details Device Info Unit Status Live Gas Trend About Device Setup Loop Current Mode • • • • Num reg preams • 7 • • Num resp preams 7 • • • Devid 29807 • • • Universal rev 7 • • •
	Fld dev rev 1 Software rev 62 Hardware rev 0

- Loop current mode (the options are available "Multi drop" and "Point to point")
- Num req preams (Number of request preambles required from the host request by the field device)
- Num resp preams (Number of preambles to be send in the response message from the field device to the host)
- Device ID (a manufacturer's reference number)
- Universal Rev (a manufacturer's reference number)
- Fld Dev Rev (Field device revision number)
- Software Rev (displays the current Optima Plus software revision number)
- Hardware Rev (revision of hardware)

5.2.6 Unit Status

In the "Unit Status", all faults, warnings, and history are captured:

💱 11/27/2015 14:21:11.890 [Optima+ Rev. :	1]	
File Actions <u>H</u> elp		
Configure/Setup	Gas Configuration Test Calibrate Assembly Details Device Info Unit Status Live Gas Trend About Device Setup	1
E-€ Configure/Setup User Login Device Setup	Operating Mode Healthy Show Unit Status	
Onfigure/Setup		
Device Diagnostics		
Process Variables		
B		
	Time: Current Send Close	Help
Device last synchronized: Device Parameter	s not Synchronized.	

- Operating Mode (six operating modes are displayed in this area)
 - o Healthy
 - Warning
 - o Fault
 - o Alarm
 - o Inhibit
 - Forced
- Show Unit Status Button (status filtering options are shown here)
- Choose Details
 - $\circ~$ Detail (Active, Event History and Latched for Level 2 only)
 - Filter (the filtering options are warning, fault)

Choose Details	? ×
Choose Details	
Detail	
Filter	
Next Cancel	Help

- Choose View
 - $\circ~$ Detail (Active, Event History and Latched for Level 2 only)
 - $\circ~$ View (filters events beginning with the most recent or the oldest)

Choose View		? X
Choose View		
D.1.1		
Active		
Filter		
Warning	v	
View		
Ji nat		
	Back Next Cancel	Help

5.2.7 Live Gas Trend

The "Live Gas Trend" tab displays the chart and other relevant information.

In the Live Gas Trend chart is tracked the gas concentration (in blue). The sampling interval displayed in the chart can be up to one hour.

Configure/Setup G- Configure/Setup User Login Device Setup	Gas Configuration Test Calibrate Assembly Details Device Info Un Time (24-hour) [14:49 Date (dd/mm/yyyy) [17/11/2015 Transmitter ID TRANSM ID	t Status Live Gas Trend About Device Setup Live Gas Trend Cycle Time 5 Seconds Live Gas Trend Length 15 Minutes
	👋 🗔 💽 🎧 📃 Live G	as Trend
	23.0 20.8 18.6 18.4 14.2 12.0 9.8 7.6 5.4 3.2 1.0 1.4,39.55 1.4,30 1.4,3	4125 14,4256 14,4425 14,4555 14,4725 14,4855

- Time (current time, time format is HH:MM)
- Date (current date, date format is DD/MM/YY)
- Transmitter ID (this can be set if a long tag is used for HART addressing)
- Live Gas Trend Cycle Time (The desired cycle time can be selected from the dropdown box)
- Live Gas Trend Length (the time of the display shown at one time is entered in this space)

• Live Gas Trend (chart, source, variables and values for X and Y-Axis) with the following icons from left to right:



• Plan (allows the chart to be moved to the left or the right)

- o Area zoom (used to examine a section of the chart)
- o Zoom in (used to view a smaller section of the chart)
- Zoom out (used to view a larger section of the chart)
- Reset (return to the original display)
- Gas concentration (the gas concentration is displayed in this space)

5.2.8 About

The following information is displayed in the "About" tab:



The About tab displays the URL of the Honeywell Analytics website and contact information for our headquarters in North America, South America, Europe, the Middle East, Africa, and the Asia Pacific region.

5.2.9 Device Setup

The "Device Setup" function offers real time information about the basic settings and current status of the device:

Configure/Setup	Gas Configuratio	n Test Calibrate Assembly Details Dev	vice Info Unit Status Live Gas Trend About	Device Setup
□- Q Configure/Setup User Login Device Setup		Set Time(24-hour)]	
bevice Setup		Set Date(dd/mm/yyyy)		
		Change Password		
		Overview		
			-	

• Set Time (current time, time format is HH:MM), visible for security level 1 and 2

Configure/Setup	Gas Configuration Test Calibrate Assembly Details Device Info Unit Status Live Gas Trend About Device Setup
Configure/Setup User Login	Set Time(24-hour)
	Set Date(dd/mm/yyyy)
	Change Password
	Overview
	الآلة Set Time(24-hour) - Optima+ Rev.1
	Set Time(24-hour)hh:mm
	Next > Cancel Help

• Set Date (current date, date format is DD/MM/YY) visible for security level 1 and 2

Configure/Setup	Gas Configuration Test Calibra	ate Assembly Details Device Inf	o Unit Status Live G	ias Trend About	Device Setup
Configure/Setup User Login Device Setup	Set	Time(24-hour)			
Device Setup	Set Da	ite(dd/mm/yyyy)			
	Char	nge Password			
		Overview			
	्य Set D	ate(dd/mm/yyyy) - Optima+ Re	ev.1		X
	Set Date	:(dd/mm/yyyy)			
			Next >	Cancel	Help

• Change Password (set new access code) visible for security level 1

Configure/Setup	Gas Configuration Test Calibrate Assembly Details Device Info Unit Status Live Gas Trend About	Device Setup
Configure/Setup	Set Time(24-hour)	
- Sencescup	Set Date(dd/mm/yyyy)	
	Change Password	
	Overview	
	💐 Change Password - Optima+ Rev.1	8
	Change Password	
	Next > Cancel Hel	

• Overview gives information about the current status of the device:

Configure/Setup	Gas Configuration Test Calibrate Assembly Details Device Info Unit Status Live Gas Trend About	Device Setup
Configure/Setup Configure/Setup User Login Device Setup	Gas Configuration Test Calibrate Assembly Details Device Info Unit Status Live Gas Trend About Coverview Overview Device Information Transmitter ID TRANSM ID Active Gas Table Butane Gas Concert Gas Concert	Device Setup
	Shortouts 0.00 40 60	80 100 120
	Live Gas Trend Concentration Unit //LEL	Send Close Print

- Transmitter ID (the serial number of the Optima Plus)
- Active Gas Table (the target gas)
- Photograph (a typical transmitter/sensor system is displayed, representing the specified)
- Shortcuts (the button will immediately display the Live Gas Trend screen)
- Live Gas Trend Button (goes to the chart described in §5.2.7)
- Device status display. The following state of the Optima Plus in order of increasing severity can be shown in this area:

Status	Symbol
Device OK	
Warning	warning
Fault	FAULT
Alarm	

- Gas concentration trend (a trend of the measured concentration is displayed)
- Gas concentration (the gas concentration is based on the current configurations)
- Concentration unit (the concentration units are, for example, Vol %, LEL*Meters, or PPM)

5.3 Device Diagnostics

"Device Diagnostics" function group offers information for maintenance engineers regarding the faults, warnings, alarms, etc:



- Active Faults 0 7 (if any of the 8 faults occur, they are displayed in the square adjacent)
- Active Faults 24 31 (if any of the 8 faults occur, they are displayed in the square adjacent)
- Ext dev status (the corresponding warning, fault or action is displayed here)
- Active Faults 8 15 (if any of the 8 faults occur, they are displayed in the square adjacent)
- Active Faults 32 39 (if any of the 8 faults occur, they are displayed in the square adjacent)
- Device Diagnostic Status 0 (data indicating that the device has detected conditions relating to its operating status, validity of variable and internal processes)
- Active Faults 16 23 (if any of the 8 faults occur, they are displayed in the square adjacent)
- Active Faults 40 40 (if any faults occur, they are displayed in the square adjacent)

• Device Status (data indicating that the device has detected conditions relating to its hardware, validity of variable, operating status and internal processes. Eight device statuses are displayed in this area)

5.4 Process Variables

"Process Variables" function group gives information about the current status of the device (as described also in 5.2.9):

Process Variables	Process Variables	Device status and Gas concentration
Configure/Setup Configure/Setu	Shortcuts Live Gas Trend	Gas Concentration 0 35 C 2000 00 0 20 40 60 80 100 120 Gas Concentration 0.00 %LEL Concentration Unit %LEL
		Send Close Help
Device last synchronized: 16/11/2015 16:49:5	7	

- Transmitter ID (the serial number of the Optima Plus)
- Active Gas Table (the target gas)
- Photograph (a typical transmitter/sensor system is displayed, representing the specified)
- Shortcuts (the button will immediately display the Live Gas Trend screen)
- Live Gas Trend Button (goes to the chart described in §5.2.7)
- Device status display. The following state of the Optima Plus in order of increasing severity can be shown in this area:

Status	Symbol	
Device OK		
Warning	WARNING	
Fault	FAULT	
Alarm		

- Gas concentration trend (a trend of the measured concentration is displayed)
- Gas concentration (the gas concentration is based on the current configurations)
- Concentration unit (the concentration units are, for example, Vol %, LEL*Meters, or PPM)

Find out more at www.honeywellanalytics.com

Contact Honeywell Analytics:

Europe, Middle East, Africa, India

Life Safety Distribution AG Javastrasse 2 8604 Hegnau Switzerland Tel: +41 (0)44 943 4300 Fax: +41 (0)44 943 4398 gasdetection@honeywell.com

Customer Service

Tel: +800 333 222 44 (Freephone number) Tel: +41 44 943 4380 (Alternative number) Fax: +800 333 222 55 Middle East Tel: +971 4 450 5800 (Fixed Gas Detection) Middle East Tel: +971 4 450 5852 (Portable Gas Detection) India Tel: +91 124 4752700

Americas

Honeywell Analytics Inc. 405 Barclay Blvd. Lincolnshire, IL 60069 USA Tel: +1 847 955 8200 Toll free: +1 800 538 0363 Fax: +1 847 955 8210 detectgas@honeywell.com www.honeywell.com

Asia Pacific

Honeywell Analytics Asia Pacific #701 Kolon Science Valley (1) 43 Digital–Ro 34–Gil, Guro–Gu Seoul 152–729 Korea Tel: +82 (0)2 6909 0300 Fax: +82 (0)2 2025 0328 analytics.ap@honeywell.com

Technical Services

EMEAI: HAexpert@honeywell.comUS US: ha.us.service@honeywell.com AP: ha.ap.service@honeywell.com

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