

FlexVu® Model UD30 Universal Display

1. What is the FlexVu® Universal Display, Model UD30 (UD30)?

The UD30 is a universal display that provides a 4-20 mA pass-through and HART pass-through output. The UD30 is compatible with the following detectors and sensors:

- Catalytic Combustible gas sensor (CGS)
- PointWatch™ IR PIR9400
- PointWatch Eclipse® IR (PIRECL)
- FlexSight™ LS2000 Line-Of-Sight Detector
- GT3000 toxic sensors

2. Can the UD30 be used with sensing devices other than those listed in question 1?

The UD30 can be used with additional sensing devices that generate a linear 4-20 mA output.

3. Will the UD30 be able to linearize a non-linear 4-20 mA input?

No. The UD30 can only pass through the 4-20 mA input.

4. What is the power consumption of the UD30?

Please see the specifications and instruction manuals for additional power consumption information, 90-1231 and 95-8764, respectively. Summary data is provided below.

UD 30 Operating Power

Standard model, with heater and backlight off:

No alarm: 1.5 watts @ 24 Vdc

Alarm: 3 watts @ 24 Vdc (20 mA current output and both alarm relays energized)

Backlight on: 0.5 watt additional

Heater on: 3.5 watts additional

CGS Model with CGS Conditioning Board and CGS sensor installed: 4 watts additional

Maximum power in alarm, with heater and backlight on:

7 watts @ 24 Vdc (Standard model)

11 watts @ 24 Vdc (CGS Model)

Note: Heater turns on when the internal temperature drops below -10°C . Heater function can be disabled to save power.

Note: Appropriate relays will be activated when a fault or alarm occurs.

5. When connecting an Eclipse (PIRECL) or other HART device to the UD30, can you access the HART communication information from the UD30?

No. The UD30 is a pass-through device. If a HART output is available for the gas detector connected to the UD30, then this 4-20 mA + HART signal is passed through to the UD30 output terminals.

6. Is the UD30 HART Device Descriptor (DD) supported in AMS Device Manager?

No. The UD30 is a pass-through device and does not have a HART DD.

7. Does the UD30 support sensor separation?

Yes. A sensor termination box is available that is designed specifically for remote sensor mounting applications.

8. Can I use the UD30 display in an Eagle Quantum Premier® (EQP) system?

Yes, but the UD30 does not have a LON output option. Connecting to the EQP system requires an analog input module (AIM).

9. Can the display be read at night or in a dark location?

Yes. The LCD on the UD30 display is backlit. The backlight is activated when there is an alarm, fault, or when accessed by the magnetic tool.

Note: The options available for the backlight's operation are accessible via the UD30 menu. While it is possible to set the backlight to always-on, this can reduce the display's lifetime.

10. What logging capability does the UD30 display have?

The UD30 can log the following events:

- **Event Logs:** Low Alarm, High Alarm, Faults (100 events)
- **Calibration Logs:** Y/N, run time, and event counter (50 calibrations)
- **Temperature History Logs:** Two sets of minimum and maximum temperature logs available. Only one set of temperature logs can be reset in the field. The UD30 can display the detector fault, alarms and calibration logs (if available).

11. How do you view the history/event logs and how many can be stored?

All logs (Event, Calibration, Temperature) can be viewed on the UD30 display by selecting HISTORY from the Main menu. The UD30 has 150 logs, as described in question 10.

Note: Please refer to the UD30 Instruction Manual, 95-8764, Appendix F for complete information regarding the UD30 menu structure.

12. If I use a non-HART detector, can I get HART information from the UD30?

No, the UD30 is a pass-through device.

13. Can calibration be initiated at the UD30?

Not all detectors can have calibration initiated from the UD30. See the UD30 instruction manual 95-8764 for details.

14. Is the UD30 display compatible with the Catalytic Gas Sensor (CGS)?

Yes. The UD30 is compatible with these sensors when used with the CGS Conditioning Board option.

15. Are UD30 SIL2 Models available?

Yes. All UD30 Models are certified SIL 2 capable.

16. How much additional loop resistance does the UD30 add?

Each UD30 nominally adds 25 ohms.