Thank You

Thanks for purchasing a DST mid-range pump-control ultrasonic sensor from us! We appreciate your business and your trust. Please take a moment to familiarize yourself with the product and this manual before installation. If you have any questions, at any time, don’t hesitate to call us at 888-525-7300.

1. Description

The DST series is APG's line of ultrasonic sensors used in conjunction with a DCR controller to give you a simplified, stand-alone system. The transmit and receive circuit is built into the sensor and digitally communicates the detected distance to the DCR controller. This allows the sensor to be separated from the DCR controller by up to 2000 feet (610 meters) with no signal loss.

2. How To Read Your Label

Each label comes with a full model number, a part number, and a serial number. The model number for your DST will look something like this: DST-2421-C10

The model number tells you exactly what you have. You can also call us with the model, part, or the serial number and we can help you.

You’ll also find all hazardous certification information on the label.

3. Warranty

This product is covered by APG's warranty to be free from defects in material and workmanship under normal use and service of the product for 24 months. For a full explanation of our Warranty, please visit https://www.apgsensors.com/about-us/terms-conditions. Contact Technical Support to receive a Return Material Authorization before shipping your product back.

Scan the QR code below to read the full explanation of our Warranty on your tablet or smartphone.

4. Dimensions

Dimensions: in./mm

5. Installation Guidelines

Your DST should be installed in an area—indoors or outdoors—which meets the following conditions:

• Ambient temperature between -30°C and 60°C (-22°F to +140°F)
• Ample space for maintenance and inspection

Additional care must be taken to ensure:

• The sensor has a clear, perpendicular sound path to the surface being monitored.
• The sensor is mounted away from tank or vessel walls and inlets.
• The sound path is free from obstructions and as open as possible for the 9° off axis beam pattern.
• The sensor is tightened by hand to avoid cross-threading.

*Important: For user interface guide and sensor configuration, see the DCR-1006A user manual.

6. Connecting to a DCR

DCR-1006A wiring terminals are accessible by unscrewing and then lifting off the front (top) face.

7. Sensor Wiring

DST Sensor

DST

+ Red

-_ Black

Pin 1 (Brown)

Micro Connector

Pin 3 (Blue)

8. General Care

9. Repair Information

10. Hazardous Location Wiring

*Important: Refer to section 10 for Hazardous Location Wiring.

*NOTE: Scan the QR code to the right to see the full user manual on your tablet or smartphone. Or visit https://www.apgsensors.com/support to find it on our website.
General Care
Your ultrasonic sensor is very low maintenance and will need little care as long as it was installed correctly. However, in general, you should periodically inspect your DST sensor to ensure the sensor face is free of any buildup that might impede the function of the sensor. If sediment or other foreign matter becomes trapped on the sensor face, detection errors can occur.

If you need to remove the sensor, be sure to store it in a dry place at a temperature between -40° and 180° F.

Repair Information
If your DST ultrasonic sensor needs repair, contact us via email, phone, or online chat on our website. We will issue you an RMA number with instructions.

- Phone: 888-525-7300
- Email: sales@apgsensors.com
- Online chat at www.apgsensors.com

Hazardous Location Wiring

Installation In Class I Division 2 Groups C and D
Class I Zone 2 A, Ex nA NB

- Install in accordance with Section 18 of the NEC or Article 500 of the NEC.
- CSA listed or Wet Location listed conduit seal at location A & B.
- The cable is potted into the sensor and runs continuously from the sensor through the Hazardous area and into the Non-Hazardous area.
- Electrical equipment connected to associated apparatus should not generate more than 200 V rms.
- Repairing or replacement of associated components may adversely affect the safe use of the system.
- WARNING - DO NOT DISCONNECT WHILE CIRCUIT IS ALIVE
- UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS.

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