

DS1000

Digital Display

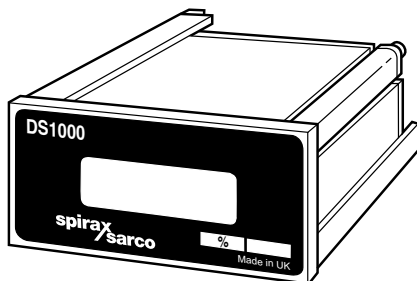
Installation and Maintenance Instructions

General safety information

Your attention is drawn to Safety Information Sheet IM-GCM-10 as well as to any National or local regulations.

Safe operation of the product depends on it being properly installed, commissioned and maintained by a qualified person in compliance with the operating instructions. It is essential to comply with general installation and safety instructions for pipeline and plant construction, as well as to make proper use of tools and safety equipment.

The product is designed and constructed to withstand the forces encountered during normal use. Use of the product for any other purpose, or failure to install the product in accordance with these Installation and Maintenance Instructions, could cause damage to the product, will invalidate the CE marking, and may cause injury or fatality to personnel.



Application

The Spirax Sarco DS1000 is connected in series with a 4-20 mA current loop to provide an LCD display, in engineering units, of the process variable represented by the current flow.

It has many uses for level, conductivity, temperature or pressure indication. A specific application example is to provide a panel mounted display of TDS for the BC1100 and BC3100 TDS blowdown controllers, which are normally fitted inside a boiler panel.

It is supplied calibrated in percentage units to display 00.0 at 4 mA and 100.0 at 20 mA. Jumper links and potentiometers on the back of the instrument allow it to be scaled in other engineering units if required.

An aperture below the display shows the unit of measurement, and the special legend sheet supplied with the instrument enables alternative units of measurement to be selected if required.

Installation

The DS1000 is installed in a 92 x 44 mm cut-out in the boiler panel, using the gasket supplied to provide an IP65 seal for the front panel. The instrument case itself is not sealed.

The DS1000 is held in place by two metal clamp bars on diagonally opposite corners, fitted from the rear, and retained by sliding clips and screws. To remove the clamp bars, loosen the screws and slide the clip inwards.

The screen must be connected to earth at one point only, preferably at the transmitter end. Cabling should be installed in accordance with BS 6739 - Instrumentation in Process Control Systems: Installation design and practice or local equivalent.

To change the legend, cut the appropriate 7 x 36 mm identification strip from the legend sheet with scissors.

Use a pointed instrument, (a scalpel or a pin is ideal) to lift the edge of the front panel label slightly and withdraw the legend strip by sliding it to the right, over the small chamfer in the front panel bezel. Slide the new legend strip into place and press the front panel label down.

Wiring

The indicator is a two wire device, designed to be connected in series with a 4-20 mA current loop. Connection can be made at any point in the loop. A two pin connector, marked with the polarity, is provided at the back of the instrument.

Maintenance

The display has no user serviceable parts, and no maintenance is necessary.

