

# Display box, 4-channel DDBF 4-SC

## Features

- 4-channel display box for strain rings DSRC
- Contemporaneous measurement and display of 4 channels
- A/C or Battery operation
- Display in  $\mu\epsilon$ , kN, t
- 2 analog outputs
- Reset with keypad or *InspectMaster*



## Electrical Data

|                                |                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------|
| Connection                     | 4 channels for 2 x 1/4 S/G bridge (350 $\Omega$ )                                         |
| Display                        | Average / peak value or sum / peak value of the activated channels                        |
| Measuring range                | $\pm 1000 \mu\epsilon$ (calibrated)                                                       |
| Resolution                     | 1 $\mu\epsilon$                                                                           |
| Characteristic curve deviation | < 0,25% FS                                                                                |
| Reset/operate offset           | < $\pm 0,1\%$ FS                                                                          |
| Bridge completion resistors Rc | 350 $\Omega$                                                                              |
| Reset                          | Zeroing is performed by pressing the reset button or by the software <i>InspectMaster</i> |
| Measuring rate                 | <i>InspectMaster</i> / analog output 250/sec                                              |
| Analog output                  | $\pm 1$ V calibrated at $\pm 1000 \mu\epsilon$                                            |
| Display refresh rate           | 2/sec                                                                                     |
| Battery                        | Maintenance-free Li-Ion battery                                                           |
| USB connection                 | USB 2.0, type B                                                                           |

## Mechanical Data

|                   |                           |
|-------------------|---------------------------|
| Sensor connection | 4 pin Binder (series 712) |
| Enclosure         | Aluminum, lacquered       |

## Environmental Conditions

|                       |              |
|-----------------------|--------------|
| Operating temp. range | +5...+50 °C  |
| Storage temperature   | -20...+60 °C |
| Protection class      | IP 40        |

## Order Code

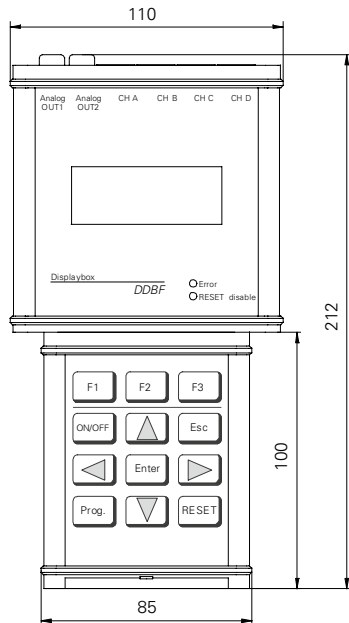
**DDBF 4-SC**

## Delivery Contents

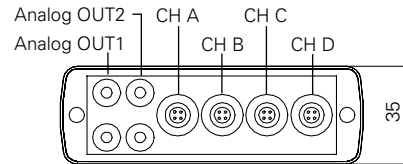
- Display box
- Power adapter (100 - 240 VAC)
- Software *InspectMaster*
- USB connecting cable
- Ground connection cable with clip



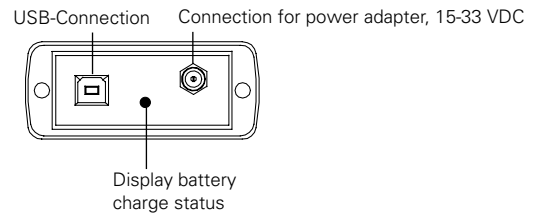
## Dimensions (mm)



## View Connector Side

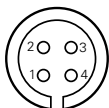


## View Bottom Side, under the top cover



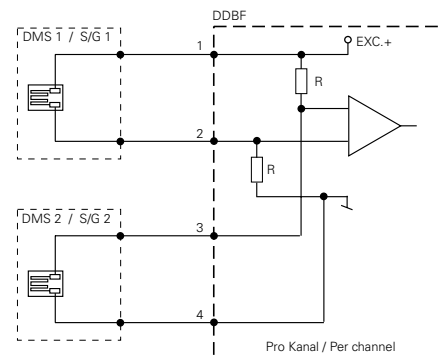
## Electrical Connections

### Sensor connection

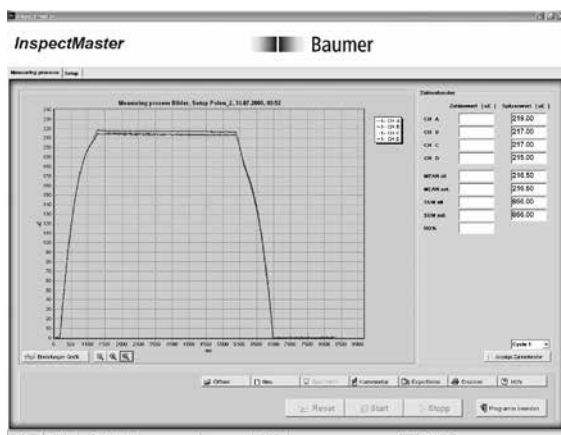


| Pin | Signal       |
|-----|--------------|
| 1   | S/G 1 EXC. + |
| 2   | S/G 1 SIG. - |
| 3   | S/G 2 SIG. + |
| 4   | S/G 2 EXC. - |

### Bridge configuration per connector



## Analysis Software *InspectMaster*



### Functions:

- Display in  $\mu\text{e}$ , N, kN, t
- Display of deviation of tie bar load distribution in %
- Cycle function with auto reset mode
- Display of graphs
- Saving of measured data
- Export function (Text file may be exported and processed in Excel)

### Requirements:

- PC with Windows, 2000, NT, XP
- minimum 500 MHz and USB interface required