

- Available for use in safe and hazardous areas
- Eliminates the risk of damage to heating tapes at termination points
- May be used as for power connection, in-line and tee-splicing
- Preferred termination method for the Heat Trace Master software package

### FEATURES

The DESTU is a direct entry sealed termination unit for use with the majority of the Heat Trace range of self-regulating, and constant wattage heating tapes.

It has been designed specifically to reduce the risk of damage to heating tapes at termination points, thus avoiding the need to expose the heating tape as it emerges from the thermal insulation for connection into the junction box.

The DESTU may be used for power termination, in-line splice and tee splice terminations, and when the RTD version of the unit is ordered, is also suitable as a means of temperature sensing at various point along the pipework length.

The DESTU unit is approved for use in non-hazardous, and hazardous locations to EN EuroNorms.



### OTHER EQUIPMENT NEEDED

#### Junction Box

The suggested junction box for use with the DESTU system is the DJB9000. This style of junction box provides ample room inside to connect the heating cables and earth wiring. The DJB9000 comes complete with the necessary terminal blocks, and is drilled with a 1" clearance (M33) entry to accept the DESTU unit. However, almost any style of junction box, provided it is drilled with a suitably sized DESTU entry, will suffice.

#### DESTU Seals

Seals are required which are designed specifically for the Heat Trace range of heating cables. The seals are positioned within the DESTU base, and provide a means of passing the heating cable safely through the DESTU unit, and into the chosen junction box. Refer to Heat Trace Ancillary Product Data Sheet APDS040 for a comprehensive listing of the seal sizes needed for specific heating tapes.

#### End / Power Seals

Termination seals are required to provide a method of safe power, and end termination of a heating tape. Refer to Product Data Sheet APDS040 for further details. A tube of RTV silicone sealant is also necessary. One tube for 6 seals is usually sufficient. If the surface temperature is likely to exceed 150°C, the DES end seal arrangement is recommended.

#### Pipe Fixing Straps

Heat Trace suggest that the PFS range of pipe fixing straps is the most suitable method of holding the DESTU unit in position on the pipework. Refer to the table provided overleaf for details. Two PFS fixing straps are required per DESTU unit.

### OPTIONAL EQUIPMENT

A Pt100 RTD sensor may be purchased to enable the DESTU to be used as a pipe temperature sensing unit. See overleaf for details.

The DESTU may also be used in a **tee-splice** arrangement when additional components are ordered. See overleaf for further details.

A **heat break** Type HBR is required should the potential pipe temperature exceed 180°C (limit 250°C).

## SPECIFICATION

**MAXIMUM EXPOSURE TEMPERATURE** 250°C (482°F)<sup>†</sup>

**CONSTRUCTIONAL MATERIAL OF DESTU** Fortron®

**DESTU DIMENSIONS (L x H x W)** 110 x 114 x 42mm

**HEAT BREAK TEMPERATURE** Minimum -45°C (-4.9°F)  
Maximum 250°C (482°F)

**HEAT BREAK CONSTRUCTION** Silicone Rubber

**HEAT BREAK DIMENSIONS (L x W x D)** 130mm x 62mm x 10mm

**SENSOR CONSTRUCTION** Stainless steel tube containing PTFE insulated wires and Pt100 RTD sensor.

**SENSOR DIMENSIONS** see fig. 2 opposite

**SENSOR POWER SUPPLY** Max. 40V DC 20VA

### APPROVAL DETAILS

**CENELEC**  Certificate No. SCS Ex 99E3089U  
Approval type Code EExell  
Standard EN50014:1992 & EN50019:1994  
Area Approval Zone 1 and 2  
Further National Approvals are available on request.

### ORDERING INFORMATION

Catalogue Reference	Description
DESTU	DESTU 'top' and 'base' sections complete with locking ring, fibre washer, blank seal, screw, shakeproof washer, instructions & caution label
HBR	Silicone rubber heat break
DRTD	RTD sensor and seal for DESTU
DES <sub>n</sub> x	DESTU end seal kit used if the maximum pipe temperature could exceed 150°C ( <i>n</i> indicates the number of heaters to be taken through the DESTU, <i>x</i> indicates the BES end boot size)
DESTU/T	Tee-splicing components including LEK/U lagging entry kit (separate product specific gland kit (PGS <sub>n</sub> or BGS <sub>n</sub> ) also required).
DS <sub>n</sub>	DESTU seal ( <i>n</i> indicates number 1 to 5)
PGS <sub>n</sub>	Plastic gland kit ( <i>n</i> indicates number 1 to 5)
BGS <sub>n</sub>	Brass gland kit ( <i>n</i> indicates number 1 to 3)
BPS <sub>n</sub>	Silicone boot power seal ( <i>n</i> indicates number 1 to 3)
BES <sub>n</sub>	Silicone boot end seal ( <i>n</i> indicates number 1 to 3)
PFS025	Pipe fixing strap for <= 2" (50mm) pipework
PFS050	Pipe fixing strap for <= 5" (127mm) pipework
PFS100	Pipe fixing strap for <= 10" (254mm) pipework
PFS200	Pipe fixing strap for <= 24" (635mm) pipework

For details of the correct DESTU seals, gland kits, or silicone boots to use, please refer to the Heat Trace Ancillary Product Data Sheet APDS040, or the comprehensive Product Guide Brochure PG010.

Note: 2 x PFS pipe fixing straps are required per DESTU unit

<sup>†</sup> Maximum temperature when the silicone rubber heat break is used. Maximum temperature *without* the heat break is 180°C (356°F). We recommend use of a heat break for DESTU and silicone end seals on pipes intended for operation in the range 150°C - 250°C

DESTU Unit - Top & Base Sections

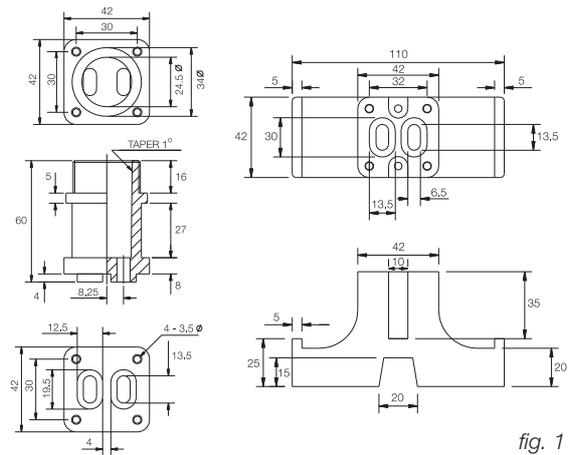


fig. 1

DESTU Sensor and Seal

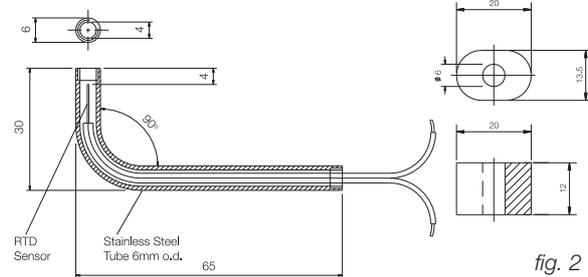


fig. 2

Typical DESTU uses

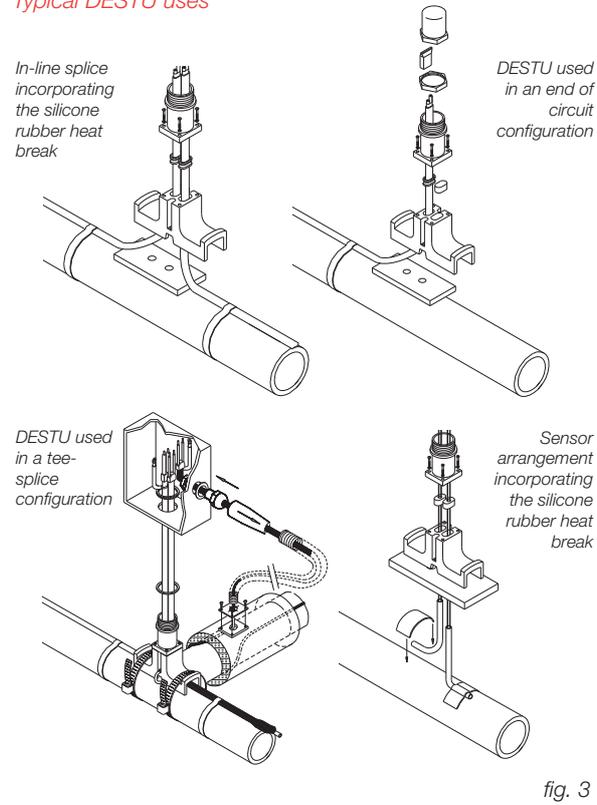


fig. 3

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