

DTS System Accessories

Distributed temperature sensing system accessories

TAQA's DTS system accessories help to provide the most advanced and reliable solution for monitoring temperature along an entire wellbore.

TAQA's DTS system accessories for permanent downhole installations are designed to provide a completely pressure rated DTS system and enhance well and reservoir understanding.

Minibend Assembly

TAQA provides a 15kpsi @ 175°C rated splice housing for the bottom of the DTS cable which allows for double ended DTS measurement. The fitting is pressure testable which confirms integrity before proceeding further with the installation. A custom-made clamp is used to secure the mini-bend to the tubing or casing.

Minisaddle

TAQA provides a 10kpsi @ 175°C rated splice housing for connection above a feed-through packer. All of the fittings are pressure testable which confirms integrity before proceeding further with the installation. A custom-made clamp is used to secure the mini-saddle to the tubing or casing.

Wellhead Outlet (WHO)

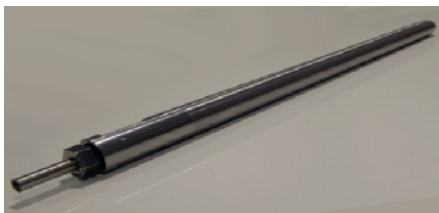
TAQA provides up to 15kpsi wellhead outlet to act as a pressure barrier between downhole and surface. The WHO also provides the housing for the splice between the downhole cable and the surface cable.

Features

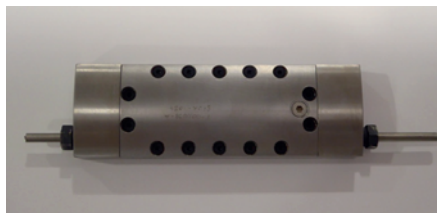
- Pressure testable housings for all downhole splices
- Allows DTS to be utilised with a packer completion
- Double ended DTS measurements

Benefits

- Full pressure integrity of each downhole connection of up to 15kpsi for Minibend assembly and 10kpsi for Minisaddle
- The Minisaddle can house multiple fibre splices
- Clamps can be used for round, square and flatpack cable encapsulation



Minibend Assembly



Minisaddle



Wellhead Outlet

DTS Remote Surface Setup Accessories

Distributed temperature sensing remote surface setup accessories

TAQA's surface DTS setup offers the most advanced and reliable solution for monitoring harsh and remote environments.

In remote locations, a surface enclosure mounted to a stand can be set up and a remotely operational surface system can be utilised to collect DTS data. The surface enclosure can house a number of surface accessories and provides protection against a wide range of weather conditions.

Oryx+ DTS Unit

TAQA's Oryx+ DTS unit is designed for outdoor installations and can operate in desert to sub-zero conditions. Installed inside the surface enclosure, the DTS unit will measure temperature from the enclosure all the way to the bottom of the wellbore.

Server Based Data Collector

Data from the DTS unit can be taken manually. However, TAQA can provide a server-based data collector which will allow the data to be transferred from the DTS unit remotely. This remote access also enables TAQA to change the configuration of the DTS unit offsite.

Solar Equipment

If a power supply is not available at the well site, TAQA can provide a solar panel set-up which will power any electrical devices inside the enclosure.

Features

- Remote operation
- Server-based data collection and configuration
- Low DTS unit power requirements (12-24V DC)
- Surface enclosure

Benefits

- Due to the DTS unit design, it can be used in a wide range of environments
- DTS data collection and access to the configuration program can be achieved remotely
- Enables a solar panel to be used for the power supply
- Surface components protected inside a weather and dust proof enclosure



Oryx+ DTS unit



Oryx+ DTS unit installed onsite



Solar Equipment