Avalon Sciences Ltd

# X TAS – Telemetry Adaptor Section HP

GEO

## LEADERS IN BOREHOLE SEISMIC TECHNOLOGY

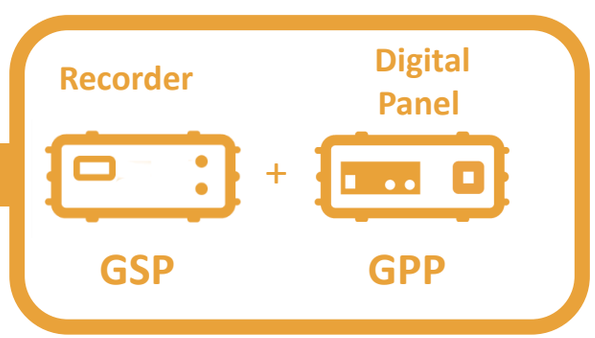
## Main Features

- Interfaces digital Geochain string to wireline cable.
- Equal wireline power distribution.
- Separates downlink power and uplink telemetry.
- Unique Active Cooling System for continuous operation at 385°F (195°C).
- 25,000psi (1700 bar) pressure rating (TAS-2 HP).

## Functionality

- The TAS serves to interface the Geochain tool-string to the main wireline cable. System power from the surface is distributed equally over six wireline conductors. Transformers in the TAS separate this power from the downlink and uplink data signals.
- The TAS receives the data from the Geochain tool-string and re-transmits this to the surface, in a coded and modulated form.
- The TAS also receives synchronisation and command information from the surface and relays this down to all ASRs in the tool-string.
- The TAS may be connected directly to the top ASR using a special coupler, but is often separated by a short ITC to avoid any possible degradation of the seismic response of the ASR.


## SURFACE PANELS




| TAS-2 (HP) Specifications | *AS283* |
|---|---|
| **Length** | 18.7” (476mm) |
| **Diameter** | 3” (76mm) |
| **Weight** | 21.6lb (9.8kg) |
| **Temperature** | 385°F (195°C) *Digital Only |
| **Pressure** | 25,000psi (1750 bar) HP version |
| **Max Telemetry Data Rate** | 4Mbit/second |
| **Min Telemetry Data Rate** | 256kbit/second |
| **Panels** | GPP or GMP & GSP-1 (Digital) |
| **DFU Compatible*** | Yes – Firmware upgrade required to all previous 2015 TAS-2 |
| **Wireline** | 7 Conductor Heptacable |