

Thermal Barrier TBF 40 for TrackSense® Pro Data Loggers

Key Features & Benefits

- ✓ High-grade Stainless-steel material
- ✓ Flat rectangular design and low height with detachable lid and high capacity ceramic material inside
- ✓ Can be used for temperatures between +200 and +400 °C
- ✓ Special version available for **SKY** usage



Ellab's Thermal Barriers

TrackSense Pro, the wireless data logger acquisition system is designed to collect data, even at high temperatures. The loggers' upper temperature limit is 150 °C (Pro and Pro X/XL) due to the battery. In order to exceed this limit, the data loggers require special protection. This protection comes in the shape of a thermal barrier, consisting of a metal cylinder or flat pack with ceramic inserts and a metal lid. The ceramic material must be saturated with distilled water prior to use.

The system utilizes the effect of evaporating water, thereby allowing the temperature of the logger to remain at approximately 100 °C while there's still water left in the thermal barrier. When all the water has evaporated, the temperature of the logger will quickly rise to the ambient temperature.

TrackSense Pro data loggers equipped with a **Sky Module** can also be used in conjunction with the thermal barrier. This combination, however, exclusively works with the 64-mm and 85-mm diameter cylinders and the 40-mm flat pack. To use the TrackSense Pro Sky Module together with the thermal barriers, a special Sky kit for thermal barriers is required.

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Technical Specifications

Operating Range:	200 to 400 °C
Outer Dimensions:	40 x 100 x 153 mm
Outside Material:	Stainless Steel AISI 304
Weight Without Water:	1100 grams
Weight with Water (min):	1340 grams
Weight with Water (max):	1410 grams
Inside Material:	PEEK Ketron1000 / Promaform 1260 (ceramics)
Lid Material:	Stainless Steel AISI 304 / Stainless Steel AISI 304 & PEEK (SKY option)
Approximate Protection Time at +200 °C:	90 minutes
Approximate Protection Time at +250 °C:	70 minutes
Approximate Protection Time at +300 °C:	55 minutes
Approximate Protection Time at +350 °C:	45 minutes
Approximate Protection Time at +400 °C:	40 minutes

