METTLER TOLEDO

InPro 6860i Power Adapter for Bio-Controller retrofits:

1.0 Order Numbers

Version VP6 to T82: Part Number: 30 083 984 (Power Adapter ODO T82)
Version VP6 to VP6: Part Number: 30 083 985 (Power Adapter ODO VP6)

2.0 Power Requirements

The InPro 6860i Power Adapter is intended for use in conjunction with the InPro 6860i Optical Oxygen Sensor from METTLER TOLEDO.
The Power Adapter conveniently provides InPro 6860i sensors with the required 24VDC for operation without the need of replacing VP or T82 cables used for polarographic oxygen sensors. The installed cables currently used at bio-controllers can be used one to one!

The Power Adapter is the ideal solution to retrofit bio-controllers with InPro 6860i sensors. The retrofit can be performed with this adapter and a conventional 24VDC power supply.

Standard power converters delivering a stable 24VDC power supply may be used to connect to the power plug of the Sensor. METTLER TOLEDO recommends a 2- or 3-prong, 24VDC; 0.500 mA power supply for this connection (min. power requirements: 230VAC….24VDC 500mA)

The Power Adapter should be mounted directly to the sensor's VP-8 head.
If there is not enough space, because of the stirrer or other objects, a standard VP-6 or VP8 extension cable can be used and the adapter is then mounted in between.

3.0 Connecting the InPro 6860i Sensor with the Power Adapters

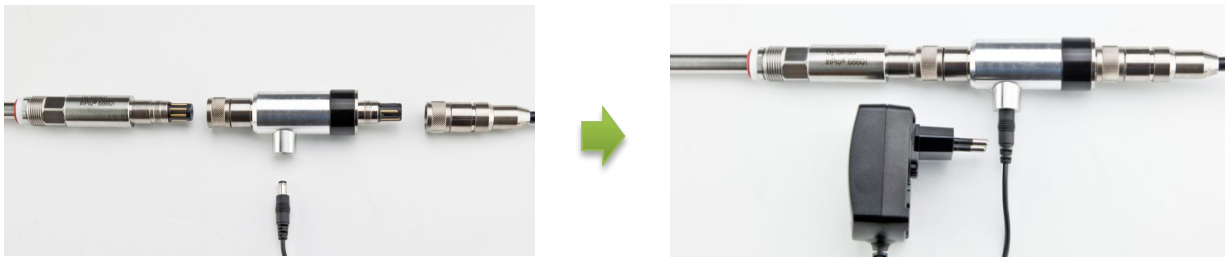
The connection must be made in the following order:

1 Connect the InPro 6860i Power Adapter to the VP or T82 cable from the Bio-controller
2 Connect the 24 VDC power supply to the Adapter
3 Connect the Sensor to the Adapter

1 – InPro 6860i Sensor with VP-8 connector
2 – InPro 6860i Power Adapter VP-6 Version
3 – Existing VP6 cable from Bio-Controller

InPro 6860i Power Adapter with VP-8 connector

InPro 6860i Power Adapter with T-82-connector



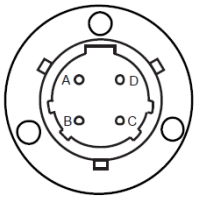
Ready to install Sensor Power Adapter assembly

Note:
If the Sensor is not powered an artificial nA-Signal may be experienced.
It is important to follow the given order for installing the equipment.

4.0 Connection Details

The T82 and VP connection's output are wired to deliver the nA and the temperature Signal as follows:

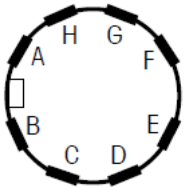
T82-Adapter Output:



T-82 Connection

A - Simulated cathode
B - Simulated anode
C - Simulated* NTC 22kΩ GND
D - Simulated NTC 22kΩ

VP6-Adapter Output:



VP Male head view

A - Simulated cathode
B - Simulated anode
C - Not used
D - Not used
E - Simulated* NTC 22kΩ
F - Simulated NTC 22kΩ GND
G - Not used
H - Not used

*In cases C and D are switched in the bio controller, the temperature signal will give wrong results (signals up to….280°C can be experienced).
To read correctly the NTC and NTC GND connection in the bio controller may have to be Re-wired / switched. Since the nA-signal is not temperature compensated, this does not influence the anode/cathodes nA-output signal.

Supplementary cables are available from METTLER TOLEDO in several lengths.