



**The Danfysik profile grid is used for direct in-vacuum measurement of beam profile and consists of an array of 32 horizontal and 32 vertical wires mounted on a ceramic block.**

**The wires are isolated from each other and individually tensioned by small springs. Each wire is attached to an individual electrometer channel for fully parallel readout. Several profile grids positioned along a beamline allow beam trajectory and emittance to be determined.**

- Array of 32 horizontal and 32 vertical wires tungsten-rhenium alloy wires
- Active detector surface: 70 x 70 mm
- Maximum power density (for DC beam): 1.2W/mm<sup>2</sup>
- Pneumatic actuator for positioning in/out of beam
- Full electronics suite available for data acquisition and control
- I3200 thirty-two channel gated integrator electrometer
  - Software-selectable 10pF and 1000pF feedback capacitors
  - Adjustable integration time down to 100us (20us via A500 control unit)
  - Dynamic range: 0.1pA to 100uA
  - Multiple on-board ADCs
  - Integrated precision calibration source
  - Pneumatic actuator power and limit switch feedback
  - RS232, USB and fast fibre optic serial interface (Ethernet via A500 control unit)
  - Easy to use, comprehensive graphical user interface, plus Win 32 and Labview drivers

Specifications are subject to change without notice.

