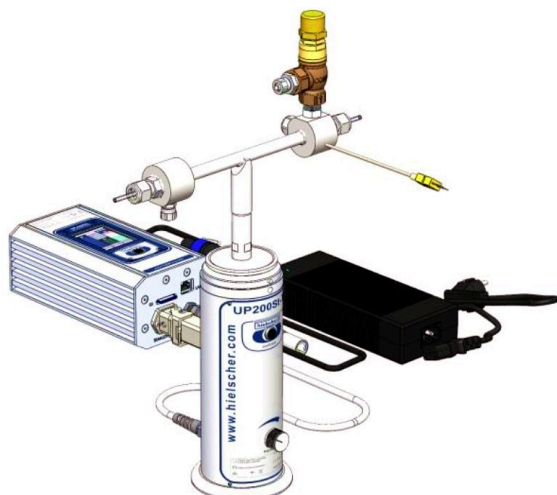


## GDmini2 - Ultrasonic Inline Mini Reactor

[www.hielscher.com/gdmini](http://www.hielscher.com/gdmini)

Ultrasonic Device  
UP200St-TD  
with **GDmini2**



**generator UP200St + transducer TD + top piece GDmini2**



**TD + GDmini2 for indirect inline sonication**

### Technical Details

The **GDmini2** is the perfect device for reliable and contamination-free sonication of liquids. With the GDmini2, the ultrasonic process is carried out in indirect, temperature-controlled mode for high-quality output. The 200 watts digital ultrasonic generator is equipped with touch display and automatic data recording, ultrasonic frequency 26kHz (auto scan); countdown timer, shutdown when final energy input reached (Ws, Wh, kWh); auto-calibration of the amplitude-dependent idle power; data recording: amplitude, power, time, temperature on internal SD-Card; display+remote control via browser on PC/MAC without software installation, remote control via PLC.

### Applications

For small and mid-size volume processing  
To integrate the GDmini2 into your process setup

- you connect each end of the glass tube to a hose and
- pump your material through it
- connect water (e.g. city water) to the designated hose nozzles.
- Switch on the ultrasonic generator – it is that simple!

### Advantages

- **Performance:**
  - Contamination-free inline sonication in glass-flow reactor (disposable, cheap to replace)
  - Consistent sonication with up to 200 watts for ultrasonic processes
  - For single pass or recirculating ultrasonic processing
  - Lysis, cell disruption, emulsification, dispersing, deagglomeration, sonochemistry
  - No fluid loss, no cross-contamination
- **Efficiency:**
  - Effortless ultrasonic processing by simple setup and operation of the GDmini2
  - Time saving: much more intense, uniform, and consistent than an ultrasonic bath
- **Flexibility:**
  - Simple setup and operation
  - Disposable glass tubes for contamination-free processes and simple cleaning
  - Simply exchangeable hose or pipe connections
  - Cuphorn, flow cell and SonoStep for specific applications are additionally available

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