



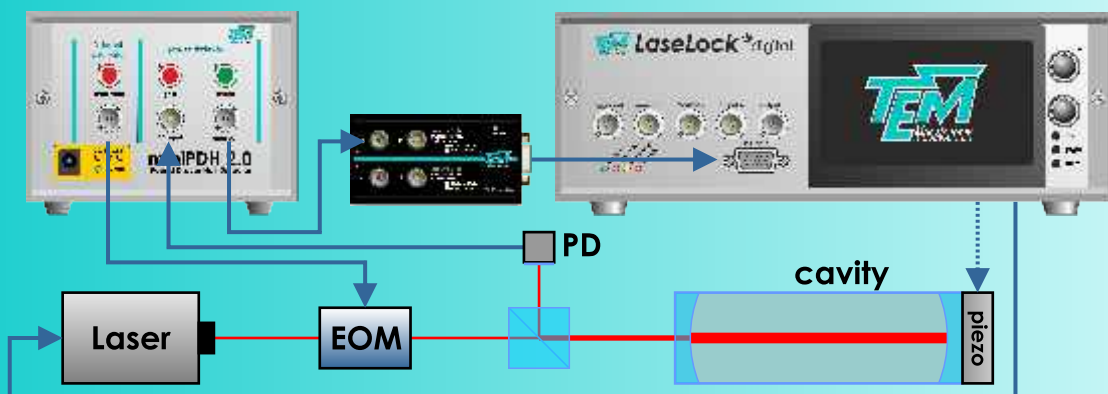
miniPDH

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Compact stand-alone Pound Drever Hall detector electronics

- phase-sensitive RF receiver
- build-in oscillator
- photo diode amplifier with adjustable gain
- error signal generator for external locking electronics (e.g. LaseLock)

Principle



Technical Data

Dimensions

control electronics: 92 x 125 x 210 mm (2 height units)

Oscillator Output

frequency: 10 to 30 MHz (preset to 20 MHz), others on request
amplitude: up to 1 Vpp (+4 dBm) @ 50Ω load
2nd harmonic suppression: better than 30 dB

Phase Detector

photo detector input sensitivity: 10 mVpp (max. gain) ... 1 Vpp (min. gain).
(higher levels will distort the error signal and will not result in bigger error signals.)
phase adjustment range: >180°, sign adjustable by internal jumper

Error Signal Output

output voltage range: ± 4V
IF bandwidth: DC ... 3 MHz

Supply

power supply input: DC 9...36V, 5.5x2.5mm plug, positive polarity
power consumption: 5W

Subject to change without notice

Development, Manufacturing and Distribution



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