

Anton-Paar MCR301 - Specifications

| Technical Data | Unit | Physica MCR 301 |
|---|--------------------|-----------------|
| Bearing | | Air |
| EC motor | | Yes |
| Min. torque rotation | μNm | 0.05 |
| Min. torque oscillation | μNm | 0.01 |
| Max. torque | mNm | 200 |
| Torque resolution | nNm | 0.1 |
| Angular deflection (set value) | μrad | 0.1 to ∞ |
| Angular resolution | μrad | 0.01 |
| Min. speed (CSS) | 1/min | 10^{-7} |
| Min. speed (CSR) | 1/min | 10^{-7} |
| Max. speed | 1/min | 3000 |
| Min. angular frequency | rad/s | 10^{-5} |
| Max. angular frequency | rad/s | 628 |
| Normal force range | N | 0.01-50 |
| Normal force resolution | N | 0.002 |
| Max. temperature range | $^{\circ}\text{C}$ | -150 to +1000 |
| Automatic gap setting (AGC/AGS) | - | Yes |
| TruGap™ | - | Optional |
| Direct Strain Oscillation (DSO) | - | Optional |
| Sample strain control (virtually compliance free) | - | Yes |
| Sample torque control (virtually inertia free) | - | Yes |
| Gap control (normal force and velocity); Tack und Squeeze | - | Yes |