

LOI 901 – Oxygen Index Analyzer

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| Measurement method | Determination of the burning behavior of plastics by oxygen index at ambient temperature in accordance with ISO 4589-2 and ASTM D 2863 |
| Sample dimensions | <ul style="list-style-type: none"> 6.5 mm x 3.0 mm x 70-150 mm, rod-shaped specimen 52 mm x 140 mm, flat specimens, thickness as manufactured |
| Sample holder | <ul style="list-style-type: none"> 1x for rod-shaped specimens 1x for flat specimens 1x for round, rod-shaped specimens |
| Ignition device | Propane gas igniter with handle, fine adjustment and shut-off valve according to standard* |
| Measuring gases | <ul style="list-style-type: none"> O₂, ≥98% purity, gas pressure 4.0 bar, or 7.0 bar for calibration* N₂, ≥98% purity, gas pressure 4.0 bar* |
| Measuring and control unit | <ul style="list-style-type: none"> Single Board Computer 1x input for thermoelectric voltage 1x input for oxygen analyzer 24-bit Sigma Delta ADC integrating Cold-junction compensation 2x output magnetic valves for O₂ and N₂ 2x output control valves for O₂ and N₂ Paramagnetic oxygen cell: 0% - 100% O₂ - Measurement uncertainty and linearity: ±0.1% Flow indicator for gas mixture: O₂/N₂ |
| Operation/display, touchscreen | <ul style="list-style-type: none"> 7", 1024 x 800 wide touchscreen Display for O₂/N₂ gas mixture Flow rate in mm/s Preselection of the gas concentration, automatic control O₂ display in % Time display |
| Software | SBC, Windows 10 IoT, LOI2016_SBC |
| Interfaces | 2x USB, 1x Ethernet |
| Complete Setup | 19" desktop device with fixture for glass column |
| Operating conditions | Temperature: 23°C ± 5 K, relative humidity: 50% ± 20% |
| Dimensions (W x D x H) | 360 mm x 360 mm x 630 mm |
| Weight | 21 kg |
| Power supply | 110-230 V / 50/60 Hz, max. 40 W |
| Scope of delivery | <ul style="list-style-type: none"> 1 LOI analyzer with fixture for glass column 2 borosilicate glass columns 75 mm (ø) x 450 mm (H) 3 sample holders 1 propane gas igniter 3 gauges for sample size and flame height 1 manual, English |
| Options/spare parts | <ul style="list-style-type: none"> 1 borosilicate glass column Sample holders 1 O₂ pressure reducer, max. 10 bar 1 N₂ pressure reducer, max. 10 bar |

* Gas to be provided by the user