

UNITEC CONTACTLESS TORQUEMETER

MAIN FEATURES

- 4-digit digital display
- Contactless transducer
- Readout display set in metric or imperial (Nm or lb/ft)
- Torque direction indicator
- Analog output for oscilloscopes

DESCRIPTION

The CL-U203, Unitec Contactless Torque Meter, provides very accurate full range torque measurement of 3HP Unitec equipment. The unit is equipped with a transducer built based on contactless torque measuring technology. Among the many benefits offered, most notable is that no electronic components rotate during operation.

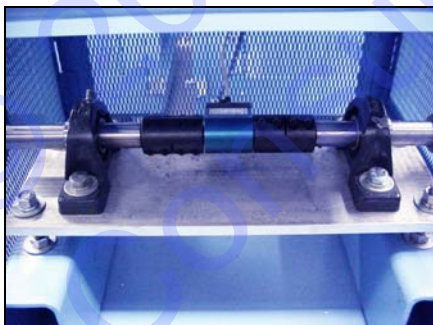
It can be readily coupled to any old or refurbished Unitec machine console. The CL-U203 is inserted between a motor, whose mechanical torque is to be measured, and electrical or mechanical load equipment. It can read the mechanical torque values in Nm or lb/ft with indication of torque direction.

An oscilloscope connected to the CL-U203 analog output (0 to ± 5 VDC) permits visualization of the transient regime of any control application with use of torque meter signal. Options available for the transducer: 0.1 % accuracy class, -10 to +10 V analog output, other resolution ranges, digital output.



CL-U203, REFURBISHED VERSION

SPÉCIFICATIONS



| DESCRIPTION | CL-U203-00 | CL-U203-50 |
|------------------------------|--------------------|------------|
| Supply Voltage: | 12...28V DC | |
| Supply Current: | < 90 mA | |
| Analog Output Voltage: | 0 à ± 5 V DC | |
| Nominal Load: | 10/15/20/50/100 Nm | |
| Accuracy Class: | 0.25 % C.N. | |
| No repeatability: | ± 0.05 % | |
| Output Signal: | ± 5.00 V DC | |
| Tolerance of Sensitivity: | ± 0.1 % | |
| Nominal Temp. Range: | +5 ...+45 °C | |
| Service Temp. Range: | 0 ...+60 °C | |
| Temp. Coeff. of Sensitivity: | +0.02 % C.N./°C | |
| Temp. Coeff. of Zero | +0.04 % C.N./°C | |
| Service Torque: | 150 % C.N. | |
| Limit Torque: | 180 % C.N. | |
| Ultimate Torque: | > 250 % C.N. | |
| Cut-off Frequency: (-3 dB) | 1 kHz | |
| Response Time: | < 0.8 mS | |
| Bandwidth: | 70 % | |
| Level o protection: | IP 50 | |
| Max. Speed: | 8000 RPM | |

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**UNITEC CONTACTLESS
TORQUEMETER****CL-U203 REFURBISHED VERSION PACKAGE**

The old CL-U203 Unitec Contactless Torque Meter can be refurbished on request. The refurbished version package includes the following:

- Checking and cleaning various components;
- Sand blast cleaning of the cabinet;
- Cabinet recoating with blue baked enamel;
- Control panel replacement;
- Mechanical torque device replacement with new technology contactless transducer;
- Wiring replacement;
- Checking the mechanical coupling operation;
- Shaft alignment;
- Ball bearing replacement;
- Replacement of necessary components; and,
- Cabinet quality control.



CL-U203, OLD VERSION



CL-U203 WITH OTHER UNITEC PRODUCTS