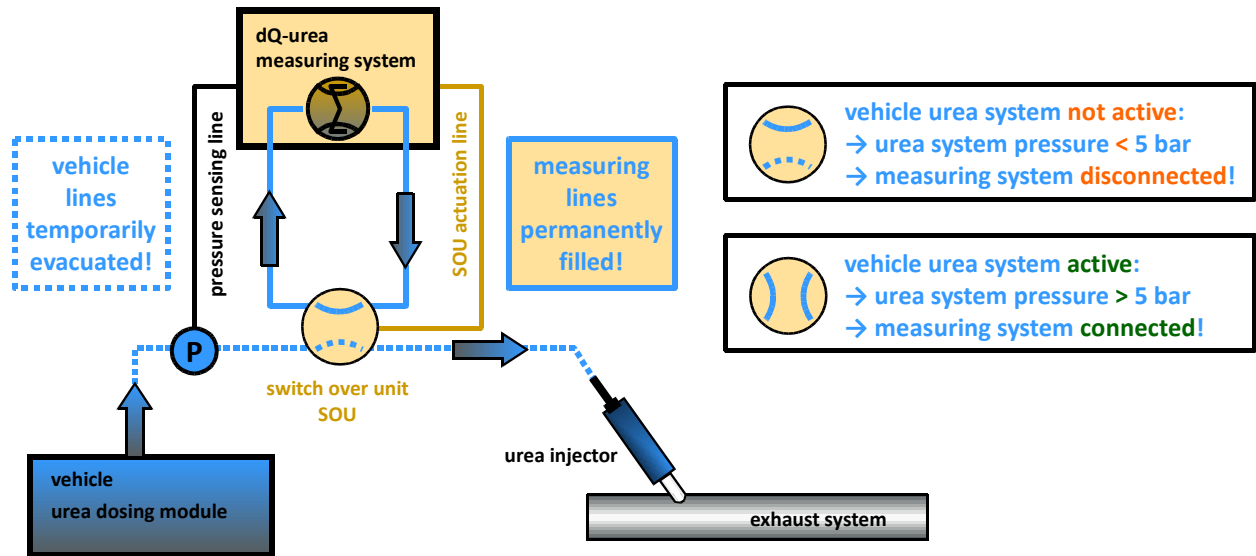


The urea measuring system: dQ-urea



The measuring system dQ-urea is a device which supports an immediate connection to the urea dosing system of the vehicle. The implemented dQ-ad sensor is a directly measuring positive displacement meter working according to the $\Delta p=0$ – *measuring-principle*.

Due to the measuring without pressure drop the dQ-urea switch over unit (SOU) can be integrated at any position in the area of the urea dosing system. Highly dynamic response and 100% readiness enable very exact measurements even with pulsating flows. During evacuation processes caused by the dosing system the dQ-urea SOU will be automatically switched into a bypass mode to ensure the permanent filling of the measuring device with fluid.

measuring ranges:

flow ranges: dQ-ad-12: 0.02 ... 12 liter/h
 dQ-ad-5: 0.01 ... 5 liter/h
operating pressure: 0.05 ... 10 bar
operating temperature SOU: -10 ... 100 °C

measuring signals:

consumption: digital pulses: 50 Hz ... 40 kHz, TTL
vehicle urea pressure (abs.): 0 ... 10 bar (0... 10 V)

accuracy:

uncertainty (95%) of calibration factors: < 0.1 %
reproducibility: > 99.9 %

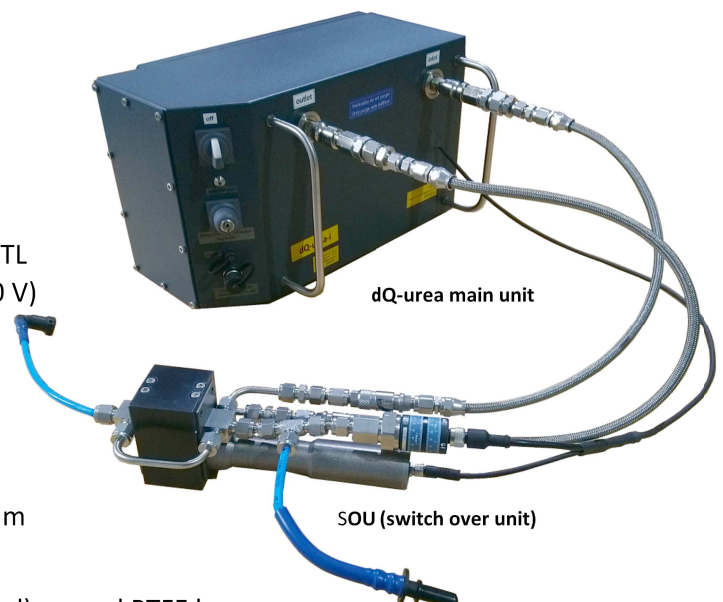
dimension:

length x width x height: 380mm x 210mm x 240mm

connections:

hydraulic: non-spill couplings (stainless steel), armed PTFE hoses
pneumatic: air supply integrated in main unit (SOU actuation), PU hose with couplings
electrical: supply (12 Volt DC): M12 2-pol; SOU pressure sensor: M8 3-pol, signals: M12 8-pol

hoses and cables to SOU with variable length, switch over hysteresis adjustable



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