

DRAFT
RECOMMENDATION

DR 2
(Inf.)

INFORMATION

Combined Revision of R 117, R 105 & R 86

Draft Recommendation R 117-1

Dynamic measuring systems for liquids
other than water.

Part 1: Metrological and technical requirements



Change to DR2, R117-1, Section 6.1.10, Note 3

Note 3

Section 3.7.7 requires that the measuring system temperature sensor shall respond rapidly to temperature changes in the liquid. This requirement is considered to be met when the sensor is able to respond to at least 90% of the variation in the temperature of the liquid within a **15 second time period (or, if larger,** a time period corresponding to the time needed to deliver a quantity twice the MMQ) when the measuring system is operating at its highest flow rate.

TC 8/SC 3 Secretariat Comment:

The original requirement of Section 6.1.10, Note 3, was a 15 second time period. A change was made in the DR2 of R117-1 (Aug 2007) to accommodate some large diameter pipeline systems and give these systems a little bit more than 15 seconds. An unintended consequence of that change is that some high-speed (high-flow-rate) systems with small MMQs will have great difficulty meeting this changed requirement. For some systems, it would mean the requirement would need to be met in less than 2 seconds. This was not intended by the secretariat.

The revision above returns the original 15 second time requirement while also accommodating large diameter pipeline systems.