

## ANNEX III

### SPECIFIC REQUIREMENTS

#### **Permissible Effect of Disturbances**

##### 7.1. *Electromagnetic immunity*

- 7.1.1. The effect of an electromagnetic disturbance on a water meter shall be such that:
- the change in the measurement result is no greater than the critical change value as defined in point 7.1.3, or
  - the indication of the measurement result is such that it cannot be interpreted as a valid result, such as a momentary variation that cannot be interpreted, memorised or transmitted as a measuring result.
- 7.1.2. After undergoing an electromagnetic disturbance the water meter shall:
- recover to operate within MPE, and
  - have all measurement functions safeguarded, and
  - allow recovery of all measurement data present just before the disturbance.
- 7.1.3. The critical change value is the smaller of the two following values:
- the volume corresponding to half of the magnitude of the MPE in the upper zone on the measured volume;
  - the volume corresponding to the MPE on the volume corresponding to one minute at flowrate  $Q_3$ .