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**Milking and cooling machine  
installations — Monitoring device  
for bulk milk cooling tanks —  
Requirements**

*Installations de machines de traite et de refroidissement — Dispositif  
de surveillance des réservoirs de refroidissement — Exigences*



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## Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

As milk is a sensitive product, the cooling and storage conditions are of special importance. Monitoring devices for cooling tanks support the control of the cooling and storage conditions and indicate if actual conditions do not comply with the specified conditions.

As the monitoring device is part of the milking and cooling installation, it is essential that its design and installation are compatible with the complete installation and comply with the installation manufacturer's specifications.

This document complements the other standards for milking and cooling equipment provided by TC 23.



# Milking and cooling machine installations — Monitoring device for bulk milk cooling tanks — Requirements

## 1 Scope

This document specifies minimum performance and information requirements for monitoring devices of bulk milk cooling tanks as part of milking and milk cooling machinery installations in agricultural operations. It also specifies the minimum requirements for materials, design and installation.

The purpose of this document is to contribute to a high-quality milk production by monitoring, collecting data and providing alarms with respect to defined parameters of the milk cooling, storage and cleaning processes.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3918, *Milking machine installations — Vocabulary*

ISO 5708, *Refrigerated bulk milk tanks*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 3918 and ISO 5708 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

### 3.1

#### **monitoring device**

means allowing to measure, to record and to evaluate specified technical or operational parameters of the bulk milk tank

### 3.2

#### **first batch of milk**

quantity of milk that is filled to the tank between T0 and T1

Note 1 to entry: See [Table 2](#) and [Figure 1](#).

### 3.3

#### **blended batch**

comprises the quantity of milk stored between T1 and T2

Note 1 to entry: See [Table 2](#) and [Figure 1](#).