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Interested committees:

Title: Draft BS ISO 21622-1 Irrigation techniques - Remote monitoring and control for irrigation systems. Part 1: General considerations.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



DRAFT International Standard

ISO/DIS 21622-1

Irrigation techniques — Remote monitoring and control for irrigation systems —

Part 1: General considerations

ICS: 65.060.35

ISO/TC 23/SC 18

Secretariat: **SII**

Voting begins on:
2025-07-07

Voting terminates on:
2025-09-29

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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This document was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 18/WG 8, *Remote monitoring and control technologies*.

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.

Introduction

In this document, any telecontrol system intended to control and/or monitor processes related to irrigation, will be referred to as Remote Monitoring and Control System (RMCS). Different control devices can be used to monitor and control an irrigation entity. The different requirements and constraints of the different irrigation entities will determine and guide the choice of the type of device required in each case.

Monitoring and control of an irrigation entity may be based on different controller technologies (or a combination thereof) and monitoring data provided by third parties available in the cloud. Some of these technologies can be used for other purposes unrelated to irrigation. This is the case of programmable logic controllers (PLCs), remote terminal units (RTUs), industrial personal computers (IPCs) or single board computers (SBCs), among others. They are normally non-specialized hardware solutions subject to international standards such as IEC 61131 – Programmable controllers, using standard programming languages and communication protocols and supporting other kinds of automation logic. As non-specialized hardware solutions, the majority are subject to other standards required in industry.

On the other hand, controllers exist that have been developed specifically for irrigation purposes, with similar capabilities to non-specialized technologies, but which have not been subject to a standardization process until now.

