International Standard ISO 6548

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION•МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ•ORGANISATION INTERNATIONALE DE NORMALISATION

Data processing — Description of interface between process computing system and technical process

Traitement de l'information — Description de systèmes d'interface entre système informatique de contrôle de processus et processus technique

First edition — 1984-05-01

UDC 681.32/.33 : 621-5 **Ref. No. ISO 6548-1984 (E)**

Descriptors : data processing, data processing equipment, process control, computer interfaces, specifications, forms (paper).

Price based on 28 pages

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 6548 was developed by Technical Committee ISO/TC 97, *Information processing systems*, and was circulated to the member bodies in February 1982.

It has been approved by the member bodies of the following countries :

Belgium	Hungary	Romania
Canada	Ireland	South Africa, Rep. of
China	Italy	Spain
Czechoslovakia	Japan	Sweden
Egypt, Arab Rep. of	Netherlands	USA
Germany, F.R.	Poland	

No member body expressed disapproval of the document.

Printed in Switzerland

Data processing — Description of interface between process computing system and technical process

1 Scope

This International Standard specifies a method of description of the interface between a process computing system and a technical process

This International Standard comprises five forms :

Form 1 : General

Form 2 : Digital inputs

Form 3 : Digital outputs

Form 4 : Analogue inputs

Form 5 : Analogue outputs.

Each form contains a list of parameters. This International Standard describes the parameters, explains the use of the forms, and gives preferred layouts of the forms.

2 Field of application

This International Standard is intended to be used for the specification of process interfaces by all concerned in the design, production, marketing and application of these interfaces. It includes lists of parameters required for the specification of these interfaces with explanations of their use so that the parameters will have the same meaning for all concerned.

3 Terminology

A process control computer system — hereafter called the system — has three major parts (see the figure) :

a) process control equipment :

such as actuators, transducers etc;

b) process computer system :

most systems include a computer but this International Standard may be used for specifying systems which do not contain a computer;

c) interface system :

an interface enables transfer of information between a technical process and a process computer system. An interface may consist of any combination of the following subsystems

— digital inputs

— digital outputs

— analogue inputs

— analogue outputs

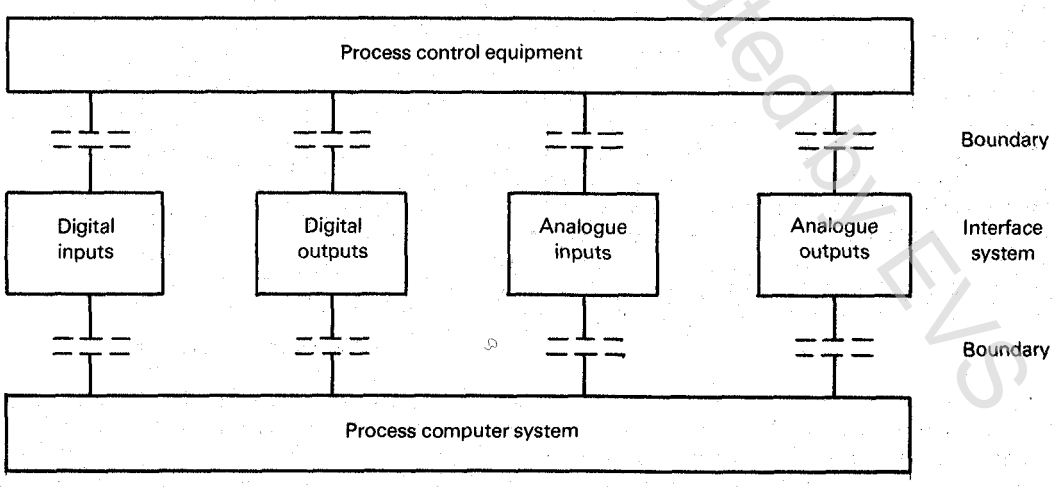

Figure — Process control computer system