

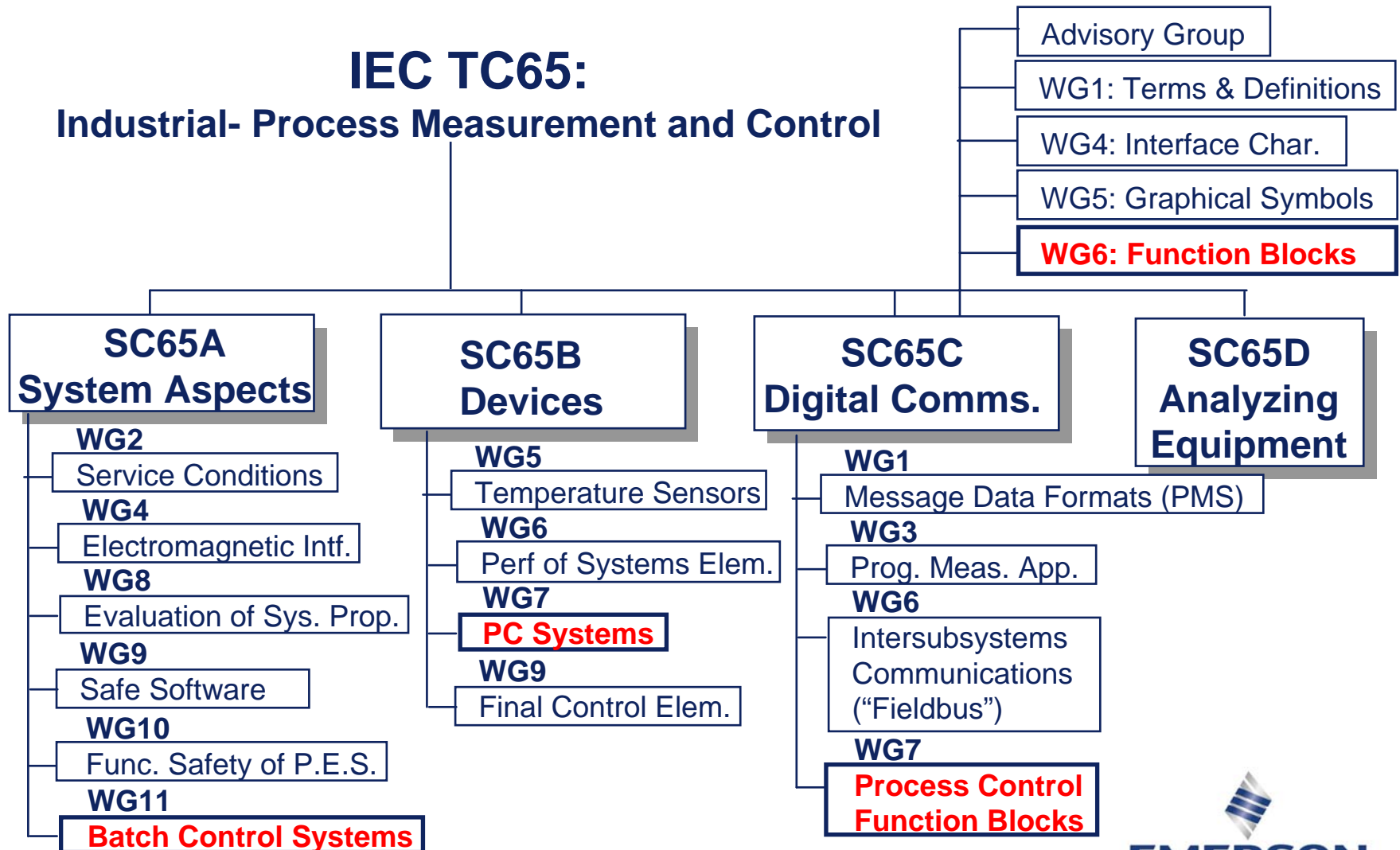
Fieldbus Standards



Agenda

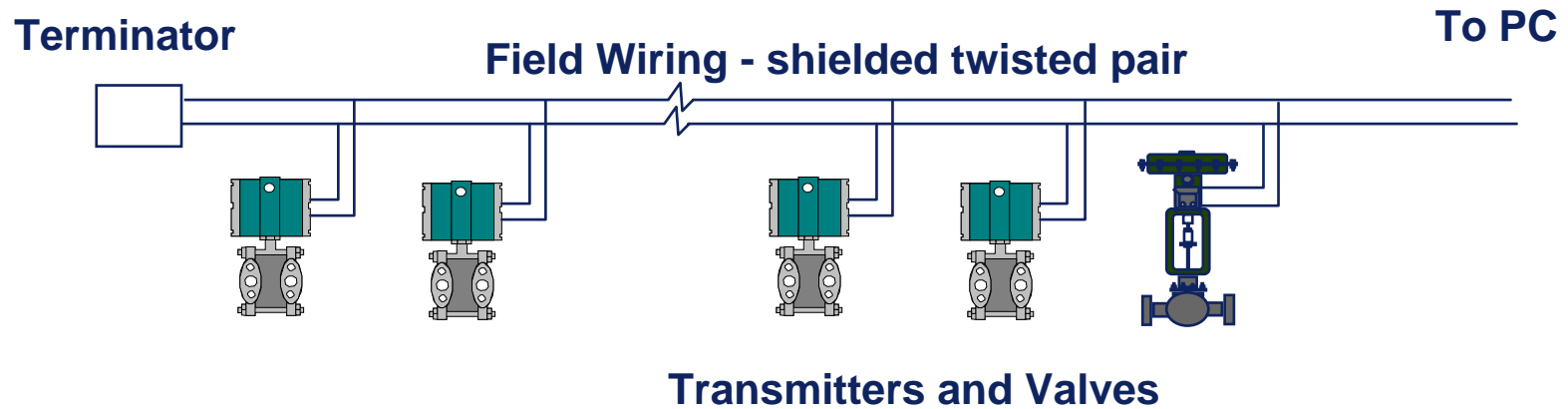
- **Overview of IEC Fieldbus Standards**
- **Fieldbus Foundation**

IEC TC65: Organization

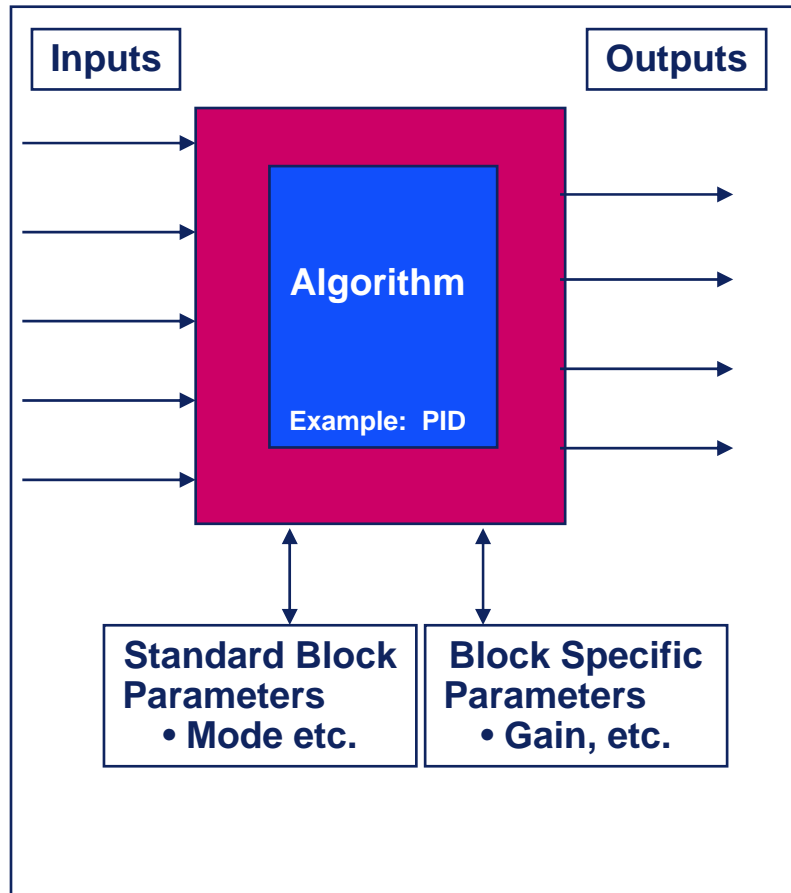


Fieldbus Foundation - Physical Standard

IEC 1158-2 Standard



Function Block Structure – IEC61804



- Consistent, easy, block-oriented configuration of functions
- Distribution and execution of functions in field devices from different manufacturers in an integrated, seamless manner
- Consistent definition of information that will be communicated and functions that will be distributed
- Avoids custom interfaces and cumbersome mapping
- All visible attributes of a block are defined as parameter in an object dictionary.

Fieldbus Foundation Member Companies

ABB Asea Brown Boveri, Ltd.
AEG Schneider Automation, Inc.
Alfa Laval Automation AB
Allen-Bradley Co., Inc.
Alpret (Pty) Ltd.
Analog Devices, Inc.
Apparatebau Hundsbach GmbH
Bailey Controls Co.
Bailey Japan Co., Ltd.
Beamex Oy, Ab
Belden Wire & Cable
Borst Automation
Bray International
Bronkhorst High Tech
Brooks Instrument
Caltex Services Co.
Chevron Research & Technology
Danfoss A/S
Digi Table thielen GmbH
DKK Corporation
Druck Ltd.
DuPont Engineering Co.
Eckardt AG
EMCO
Endress + Hauser GmbH
Enraf
Exxon Research & Engineering
FINT
Fisher Controls International
Fisher-Rosemount Systems
The Foxboro Company
Fraunhofer Institute (IITB)
Fuji Electric Co., Ltd.
Furon Company, Dekron Division

Glaxo Inc.
GSC Precision Controls
Hartmann & Braun
Hitachi, Ltd. Instrument Division
Honeywell Inc.
i.f.a.c.
Instituto de Investigaciones
Johnson Controls, Inc.
Johnson Yokogawa Corp.
KK Codix
K-Patents Oy
Keystone Controls
Kimray Inc.
Knick Elektronische
Koso Service Co., Ltd.
KROHNE Messtechnik GmbH
Leeds & Northrup
Limatorque Corp.
Magnetrol International
Masoneilan-Dresser
Measurement Technology, Ltd.
Mettler - Toledo Inc.
Micro Motion Inc.
Milltronics
Mitsubishi Electric
Monsanto Company
Motoyama
Nagano Keiki Seisakusho
National Instruments
NEC Corporation
Neles-Jamesbury Oy
NEMA
Niigata Masoneilan Ohkura Elec.
Norsk Hydro a.s.

Ohkura Electric Co., Ltd.
Oval Corp.
Pacific Avionics Co.
Pepperl + Fuchs
POHTO
Politecnico di Torino-Dai
Presys Instrumentos
Procter & Gamble Co.
R. Stahl GmbH & Co.
Ramsey Technology, Inc.
Ronan Engineering
Rosemount Inc.
Rosemount Analytical Inc.
Saab Tank Control
Schneider North America
Servomex Company Inc.
Shell Oil
Shimadzu Corporation
Ship Star Associates
Siebe ECD
Sieger TPA Ltd.
Siemens Industrial Automation
Simrad Albatross AS
SMAR International
Softing GmbH
SOR, Inc.
StoneL Corp.
TMG i-tech GmbH
Tokyo Keiso Co., Ltd.
Toshiba Corporation
Valmet Automation Inc.
VALTEK
VEGA Grieshaber
Vinson Supply

Westlock Controls Corp.
WorldFIP Europe
Yamatake-Honeywell Co.
Yokogawa Electric Corp.
Yokogawa Electronics Corp.