

GP 15-06-01	Electronic and Pneumatic Instruments	June 2004
-------------	--------------------------------------	-----------

Electronic and Pneumatic Instruments

GP 15-06-01

Scope

[I] This Practice covers requirements governing the design, performance, and purchase of electronic and pneumatic instruments.

[I] This Practice does not cover application or installation of electronic and pneumatic instruments. See Global Practices listed following for application and installation details on each instrument type.

[I] An asterisk (*) indicates that a decision by the Owner's Engineer or purchaser is required, or that additional information is to be supplied by the purchaser.

This Practice is appropriate for attachment to Inquiry or Purchase Document.

Downstream, Chemical, Downstream Imperial Oil	For ExxonMobil Use Only	Version 1.2.0
Page 1 of 8	©ExxonMobil Development Company	



Documents

Document Sharing Hub

GP 15-06-01	Electronic and Pneumatic Instruments	June 2004
-------------	--------------------------------------	-----------

Table of Contents

1. Required References	3
1.1. Global Practices–ExxonMobil Engineering Practices	3
1.2. ASME–American Society of Mechanical Engineers	3
1.3. ISA–Instrument Society of America	3
1.4. API–American Petroleum Institute	3
2. Additional Requirements	3
2.1. Global Practices–ExxonMobil Engineering Practices	3
2.2. ISA–Instrument Society of America	4
3. Enclosures and Connections	4
4. Materials	4
5. Design and Performance	5
5.1. Signals	5
5.2. Performance	5
5.3. Electronic Transmitters	5
5.4. Pressure Transmitters.....	6
6. Stand Alone Controllers.....	6
7. Instrument Nameplate Identification.....	7
Record of Change	8
Attachment: Purpose Codes Definitions	9

DNST, CHEM, DIOL	For ExxonMobil Use Only	Version 1.2.0
Page 2 of 8	©ExxonMobil Development Company	



Documents

Document Sharing Hub

GP 15-06-01	Electronic and Pneumatic Instruments	June 2004
-------------	--------------------------------------	-----------

1. Required References

This Section lists Practices and Standards that are generically referenced and assumed to be a part of this document. Unless otherwise specified herein, use the latest edition

1.1. Global Practices–ExxonMobil Engineering Practices

GP 15-02-01	Temperature Instruments
GP 15-03-01	Pressure Instruments
GP 15-04-01	Flow Instruments
GP 15-05-01	Level Instruments
GP 15-06-02	Environmental Protection for Instrumentation
GP 15-10-01	Instrument Transmission Systems

1.2. ASME–American Society of Mechanical Engineers

ASME B1.20.1	Pipe Threads, General Purpose (Inch)
ASME B16.5	Pipe Flanges and Flanged Fittings NPS 1/2 Through NPS 24

1.3. ISA–Instrument Society of America

ISA 51.1	Process Instrumentation Technology
----------	------------------------------------

1.4. API–American Petroleum Institute

API RP 552	Transmission Systems
------------	----------------------

2. Additional Requirements

The following Practices and Standards shall be used with this Practice as specified by the Owner's Engineer.

2.1. Global Practices–ExxonMobil Engineering Practices

GP 03-16-01	Flanged Joints, Gaskets, and Bolting
GP 20-01-01	Inspection of Equipment and Materials

DNST, CHEM, DIOL	For ExxonMobil Use Only	Version 1.2.0
Page 3 of 8	©ExxonMobil Development Company	



Documents

Document Sharing Hub