



PROCESS
INDUSTRY
PRACTICES

TECHNICAL REVISION
December 2021

Process Control

**PIP PCEPA003
Process Analyzer System
Field Installation Guideline**

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PURPOSE AND USE OF PROCESS INDUSTRY PRACTICES

In an effort to minimize the cost of process industry facilities, this Practice has been prepared from the technical requirements in the existing standards of major industrial users, contractors, or standards organizations. By harmonizing these technical requirements into a single set of Practices, administrative, application, and engineering costs to both the purchaser and the manufacturer should be reduced. While this Practice is expected to incorporate the majority of requirements of most users, individual applications may involve requirements that will be appended to and take precedence over this Practice. Determination concerning fitness for purpose and particular matters or application of the Practice to a particular project or engineering situations should not be made solely on information contained in these materials. The use of trade names from time to time should not be viewed as an expression of preference but rather recognized as normal usage in the trade. Other brands having the same specifications are equally correct and may be substituted for those named. All Practices or guidelines are intended to be consistent with applicable laws and regulations including OSHA requirements. To the extent these Practices or guidelines should conflict with OSHA or other applicable laws or regulations, such laws or regulations must be followed. Consult an appropriate professional before applying or acting on any material contained in or suggested by the Practice.

This Practice is subject to revision at any time.

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1. Scope

This Practice provides guidelines for the field installation of process analyzer systems.

2. References

Applicable parts of the following Practices and industry codes and standards shall be considered an integral part of this Practice. The edition in effect on the date of contract award shall be used, except as otherwise noted. Short titles are used herein where appropriate.

2.1 Process Industry Practices (PIP)

- PIP PCCIP001 - *Instrument Piping and Tubing Criteria*
- PIP PCSPA002 - *Process Analyzer System Data Sheet Instructions*
- PIP PCSPA002-D - *Process Analyzer System Data Sheet*

2.2 Industry Codes and Standards

- National Fire Protection Association (NFPA)
 - NFPA 70 - *National Electrical Code (NEC)*

3. Definitions

owner: Party who owns the facility wherein the process analyzer system will be installed

purchaser: Party who awards the contract to the supplier. The purchaser may be the owner or the owner's authorized agent.

supplier: Party responsible for installing the process analyzer system

4. Pre-Installation

4.1 General

- 4.1.1 Before installing the analyzer system equipment in the field, a pre-installation meeting should be held between the owner, purchaser, and supplier to review all associated analyzer system installation drawings.
- 4.1.2 If required to assist with start-up, calibration, and/or initial operation, analyzer original equipment manufacturer (OEM) service representatives and/or analyzer system vendor personnel should be scheduled. Analyzer OEM's assistance may also be required for warranty validation.
- 4.1.3 Installation of all analyzer equipment should be performed by trained, experienced personnel.

4.2 Receiving

- 4.2.1 Personnel should be assigned to coordinate the arrival of equipment on site. Coordination instructions should include time, location, and date of scheduled