



PROCESS
INDUSTRY
PRACTICES

REAFFIRMATION
September 2022

Process Control

PCSPA003
Instructions for Process Analyzer Shelter
Data Sheets

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. Determinations concerning fitness for purpose and particular matters or application of the Practice to 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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PIP PCSPA003 Instructions for Process Analyzer Shelter Data Sheets

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Data Form

PIP PCSPA003-D - Process Analyzer Shelter
Data Sheets

1. Scope

This Practice provides instructions for preparing a Process Analyzer Shelter Data Sheet.

The four general types of analyzer shelters that can be specified using *PIP PCSPA003-D* are as follows:

- a. Type I – Field Mounted - An analyzer in an integral cabinet mounted on a freestanding support
- b. Type II – Freely Ventilated - Typically a three-sided shelter
- c. Type III – Climate Controlled - Shelter with a controlled interior that is necessary for proper operation of the analyzer system(s)
- d. Type IV – Controlled for Electrical Area Classification Reduction - Shelter designed to accommodate and allow safe operation of analyzer system(s) that are not rated for the exterior electrical area classification of the shelter

Each analyzer shelter in a project shall have a separate *PIP PCSPA003-D* Data Sheet specifically tailored for its intended analyzer complement. This data sheet can be supplied directly to a shelter vendor for small applications or, with other supporting documentation, to companies specializing in analyzer system integration and packaging.

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 PCCEL001 - *Instrumentation Electrical Design Criteria*
- PIP PCCGN001-D - *General Instrumentation Design Basis Data Sheet*
- PIP PCCIP001 - *Instrument Piping and Tubing Systems Criteria*
- PIP PCEPA001 - *Process Analyzer System Engineering Guidelines*
- PIP PCSIP001 - *Instrument Tubing Material Specification*
- PIP PCSPA003-D - *Process Analyzer Shelter Data Sheet* (included as part of this Practice)

2.2 Industry Codes and Standards

- National Fire Protection Association (NFPA)
 - NFPA 101 - *Life Safety Code*
 - NFPA 496 - *Standard for Purged and Pressurized Enclosures for Electrical Equipment*