

SIMATIC DP/PA AFD

# Product Data Sheet

**6ES7157-0AF81-0XA0**

Active PROFIBUS PA Field Distributor

|                        |                        |                           |                      |
|------------------------|------------------------|---------------------------|----------------------|
| OPERATING SUPPLY RANGE | MAXIMUM SUPPLY VOLTAGE | PA SECTION OUTPUT VOLTAGE | POWER-FAILURE BYPASS |
| 16 to 32 V DC          | 35 V                   | 31 V DC $\pm 1$ V         | 5 ms                 |

Siemens 6ES7157-0AF81-0XA0 is a active profibus pa field distributor in the SIMATIC DP/PA AFD range. It is intended for compatible industrial automation projects requiring the documented PROFIBUS PA field-device distribution.

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## VERIFIED TECHNICAL DATA

|                             |                        |
|-----------------------------|------------------------|
| Operating supply range      | 16 to 32 V DC          |
| Maximum supply voltage      | 35 V                   |
| PA section output voltage   | 31 V DC $\pm 1$ V      |
| Power-failure bypass        | 5 ms                   |
| Typical current consumption | 20 mA                  |
| PA section output current   | 1 A                    |
| Typical power dissipation   | 600 mW                 |
| PA spur-line count          | 4                      |
| Maximum spur-line current   | 60 mA per line         |
| Main-line status indication | Green LED, PA1 and PA2 |

## ADDITIONAL PRODUCT DATA

|                             |                                       |
|-----------------------------|---------------------------------------|
| Main-line fault indication  | Red LED, PA1 and PA2                  |
| Spur-line status indication | Green LED, X1 to X4                   |
| Field-device allocation     | 4 PROFIBUS PA devices maximum         |
| Field-device location       | Outside the hazardous area            |
| Diagnostic capability       | PA main-line and spur-line monitoring |

## DOCUMENTED USE SETTINGS

Industrial Chemical Manufacturing and Petrochemical Processing: Chemical Production Process Automation.

Water Supply and Municipal Wastewater Treatment: Municipal Water Supply Control.

Pharmaceutical Manufacturing and Drug Formulation Production: Pharmaceutical Batch Process Control.

## SYSTEM COMPATIBILITY

Integrate 6ES7157-0AF81-0XA0 only in the documented SIMATIC DP/PA AFD configuration. Match the installed interfaces and the engineered application before selecting this active profibus pa field distributor.

## PRODUCT EVIDENCE

Siemens DP/PA coupler, DP/PA link and Y link, A5E00193841-16, 10/2006; AFD technical data p.13-22

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