Smart ESD Device 700 Series
for Safety Instrumented Systems (SIS)

Diagnoses emergency shutdown valve abnormalities and improves maintenance efficiency.

1. Certified for SIL (Safety Integrity Level) 3 Capable
2. Standard feature of PST (Partial Stroke Test) function
3. Compatible with various instrumentations
Smart ESD Device 700 Series
for Safety Instrumented Systems (SIS)

Features

SIL certification based on the IEC 61508 safety standard.
This product is compliant with IEC 61508 and certified for SIL 3 Capable.

Standard feature of PST function
This product is equipped with a PST function for online diagnosis of emergency shutdown valves.

<PST Execution>
- Automatic execution based on the device’s internal scheduler
- Execution by LUI (Local User Interface)
- Execution by host device through HART communication

Compatible with various instrumentations
This device can be used in various instrumentations including use in combination with a solenoid valve and use in place of a solenoid valve to execute the emergency shutdown function. (This device can operate in loops compliant with SIL3.)

Basic specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Actuators</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVP 77_</td>
<td>(4 to 20 mA DC)</td>
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<tr>
<td>AVP 78_</td>
<td>(0 to 20 mA DC)</td>
</tr>
<tr>
<td>AVP 79_</td>
<td>(0/24 V DC)</td>
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</tbody>
</table>

- Pneumatic single/double-acting actuator
- Supply air pressure: 140 to 700 kPa
- Output signal: Contact output, analog output (valve travel)
- Explosion-proof: TIIS, FM, IECEx, NEPSI, KOSHA, EAC, INMETRO explosion-proof
- FM intrinsically safe (iC) or non-incendive
- ATEX Intrinsically safe (ia)/Dust Ignition Protection
- IECEx Intrinsically safe (ia)/Dust Ignition Protection

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https://www.azbil.com/products/factory/order.html

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