



# 3481S2

Triconex 4-Point Analog Output Module

## Product scope

- Provides four controlled analog output channels.
- Accepts redundant 24 VDC loop-power sources through compatible baseplates.
- Supports HART multiplexing with the designated 2483-series baseplates.
- The 3481S2 is the four-point analog-output member used in standard and HART Tri-GP assemblies.

## Official source basis

Invensys Triconex, Planning and Installation Guide for Triconex General Purpose v2 Systems, Analog Output Components.

Technical facts are limited to the identified manufacturer documentation and the exact ordering configuration shown above.

| Request a fast quote                                                                                                                                              | Product reference |                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------|
| Email: <a href="mailto:info@apterpower.com">info@apterpower.com</a><br>Phone: +86 18106909650<br><a href="http://apter.com/inquiry.php">apter.com/inquiry.php</a> | Triconex 3481S2   |  |

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## 3481S2 technical profile

Triconex 3481S2 provides four current-output channels for final elements and analog interfaces. Each point receives triplicated command paths through selector logic and a dedicated digital-to-analog converter arrangement.

The module can be used with the 2481S2 direct baseplate, 2483S2 HART baseplate or the corresponding hazardous-location assemblies. HART versions add the Triconex 4850 multiplexer and filtered communication path without changing the four active output count.

Preserve redundant 24 VDC loop power, correct load polarity and the requirement to short unused active output positions. The HART baseplates are limited to 3481S2; fitting another module can damage baseplate components.

## Selection notice

2483S2 and 2483AS2 HART baseplates are approved only for 3481S2; installing another output module can damage the baseplate.

## Technical specifications

| Output points            | 4                                 |
|--------------------------|-----------------------------------|
| Output signal            | Current loop                      |
| Loop power               | Redundant 24 VDC                  |
| Internal channels        | A / B / C selector logic          |
| Conversion               | DAC per channel path              |
| Feedback                 | Current loopback                  |
| Standard baseplate       | 2481S2                            |
| HART baseplate           | 2483S2                            |
| Hazardous HART baseplate | 2483AS2                           |
| HART multiplexer         | Triconex 4850                     |
| Multiplexer part         | 1600106-001                       |
| Hazardous ETP            | 9863-610F                         |
| Hazardous ETP terminals  | 8 points, 4 used by module        |
| Unused output rule       | Short active unused points        |
| Protective earth         | Required at hazardous termination |
| Operating temperature    | 0 to 60 °C                        |
| Storage temperature      | -40 to 85 °C                      |
| Humidity                 | 5 to 95%, non-condensing          |
| System architecture      | Triple Modular Redundant          |

## Application and integration notes

|                                             |                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Monitoring &amp; Control</b>             | <ul style="list-style-type: none"> <li>• Each output uses selector logic and current loopback to supervise the commanded signal.</li> <li>• Four independent points serve separate current-loop final elements.</li> <li>• The controller reports module or channel abnormalities through the Tri-GP diagnostic path.</li> </ul>                                             |
| <b>Compatibility &amp; Interoperability</b> | <ul style="list-style-type: none"> <li>• The direct 2481S2 baseplate supports the standard four-point output arrangement.</li> <li>• HART operation uses 2483S2 or 2483AS2 with the Triconex 4850 multiplexer.</li> <li>• The hazardous-location 9863-610F panel accepts four active outputs even though it provides eight terminal positions.</li> </ul>                    |
| <b>Compliance</b>                           | <ul style="list-style-type: none"> <li>• Hazardous-location assemblies use the approved baseplate, isolators and energy-limiting termination design.</li> <li>• ATEX installations require the documented intrinsic-safety isolators and wiring practice.</li> <li>• Certification applies to the complete approved assembly rather than the output module alone.</li> </ul> |

## Request product documentation and quotation support

Send the complete label, system configuration, quantity and destination.



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