

Orion I/O™ for Electric Substations

NovaTech Orion I/O™ is an extension of the family of Orion Automation Platforms for substation automation and incorporates the same security features, software tools, and NCd configuration as the Orion LX+, Orion LXm, Orion MX, and Orion SK. It is a rack panel, or DIN rail mountable assembly with four slots that can be filled with any combination of I/O cards, currently:

- 16-point Discrete Input Card
- 16-point Discrete Input Wetted Card
- 16-point Discrete Output Card
- 16-point High Power Output Card
- 8-point Discrete Input / 8-point High Power Output Combination Card
- 8-point Analog Input Card
- 8-point Analog Input Flex Card

Full population of discrete cards yields 64 MO in 2 RU (rack units); full population of analog input cards yields 32 analog inputs. See Figure 1 below for front indications and rear connections on Orion I/O.



Figure 1 – Front indications and rear connections on Orion I/O with Advanced I/O option

16-point Discrete Input Card

- Electrically isolated circuits; two-wires per input
- Single design accommodates either higher voltage range (CHV) or lower voltage range (CLV); Range selection in software
- CHV: nominal 125V dc, maximum 145V dc, always OFF at 75V dc
- CLV: nominal 12V dc to 48V dc, maximum 60V dc, always OFF at 5V dc

16-point Discrete Input Wetbed Card

- Module generates and sources the contact wetting current
- 16-points in one group. Even-numbered terminals shorted together internally to provide more wiring flexibility
- 24V dc or 48V dc wetting voltage is provided by I/O card. Wetting power supply voltage software selectable in NCd

16-point Discrete Output Card

- Conventional isolated normally open (NO) contacts
- Two terminals per output
- Tripping duty, substation-grade relay outputs
 - Max 30A, continuous carry 10A
 - Break inductance @48V dc: 700mH @40ms L/R
 - Break inductance @1.25V dc: 200mH @40ms L/R
- AC rating: up to 250V ac @5A

16-point High Power Output Card

- Up to 145V dc
- Break-inductive circuit of 10A, with a time constant of 40ms L/R
- OFF-to-ON, less than 10ms; ON-to-OFF, less than 10ms
- Leakage current 1mA or less
- Max 30A, continuous carry 10A
- DC only

8-point Discrete Input / 8-point High Power Output Combination Card

- Input circuit and output circuit specifications as in above cards
- Includes "Feedback Dropout" feature where the turn OFF of a selected output is gated by a state change of a selected input (e.g. S2a or S2b)

8-point Analog Input Card

- Isolated with three ranges:
 - 2mA to +2mA
 - 10V to +10V
 - 4mA to 20mA

8-point Analog Input Flex Card

- Isolated with three ranges (as above):
 - 2mA to +2mA
 - 10V to +10V
 - 4mA to 20mA
- Range selection in software
- Input impedance on voltages increased to 1M ohm (from 10k ohms on standard AI card)
- Terminals provided for analog shield wires

Orion Amcap Manual

Comshare

Orion Amcap Manual:

Orion Reference Manual Comshare, 1982

Enjoying the Song of Expression: An Emotional Symphony within **Orion Amcap Manual**

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Orion Amcap Manual Introduction

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