

DeviceNet™ Communications  
Module



DeviceNet Module

The DeviceNet Communications module (Catalog Number WPONIDNA) is designed to plug into the Advantage with the attached cable and plug. The module can be snapped onto the top or bottom of the Advantage unit. It can also be mounted separately using the mounting plate assembly (Catalog Number WPONIBASE). The module provides DeviceNet users with the ability to control and monitor the functions of the Advantage system at 125, 250 or 500 kbaud. A connector is provided so that a HAND/OFF/AUTO hard contact may be used to selectively enable or disable the output of the control functions from the module without affecting its ability to monitor. A "Feedback" input is provided so that the state of an auxiliary contact may be read over the DeviceNet network.

Three bicolor LEDs indicate:

- DeviceNet address
- Network status (including connected, not connected, not powered)
- Module status (including normal operation, minor fault, needs commissioning)

Table 33-314. DeviceNet Interface

| Description                | Catalog Number | Price U.S. \$ |
|----------------------------|----------------|---------------|
| DeviceNet Interface Module | WPONIDNA       |               |
| Mounting Plate Assembly    | WPONIBASE      |               |

**Note:** See Page 33-219 for WPONI Network Interface.

Type W Auxiliary Contact Modules

- Provides four separate contact sets which wire vertically and are color coded; black designates NC and silver designated NO.
- Up to two auxiliary contact modules can be mounted for a total of up to eight contact sets.
- Provides circuit isolation (no polarity restrictions) and single break bifurcated contacts.
- Common design fits all Sizes 1 – 6.

Table 33-315. Ratings

| Voltage                      | Make    | Break  |
|------------------------------|---------|--------|
| NEMA A600 —<br>120 – 600V AC | 7200 VA | 720 VA |
| NEMA Q300 —<br>125 – 300V DC | 69 VA   | 69 VA  |

Table 33-316. Auxiliary Contact Modules

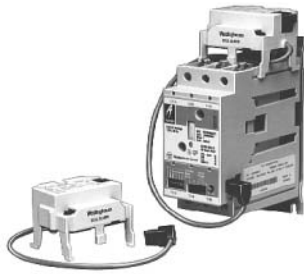
| Description                                                                    | Catalog Number                          | Price U.S. \$ |
|--------------------------------------------------------------------------------|-----------------------------------------|---------------|
| 2NO, 2NC<br>3NO, 1NC<br>4NO<br>4NC<br>1NO, 3NC<br>1NO, 1NC and<br>2 Tie Points | W22<br>W31<br>W40<br>W04<br>W13<br>W11T |               |

Transformer Pilot Light Kits

Table 33-318. Transformer Pilot Light Kits

| Voltage                  | Color                      | Legend Plate             | Catalog Number                   | Price U.S. \$ | Replacement Part                                 | Price U.S. \$ |
|--------------------------|----------------------------|--------------------------|----------------------------------|---------------|--------------------------------------------------|---------------|
| 120<br>240<br>480<br>600 | Red<br>Red<br>Red<br>Green | RUN<br>RUN<br>RUN<br>OFF | PLK1R<br>PLK2R<br>PLK4R<br>PLK1G |               | 99-3590-1<br>99-3590-3<br>99-3590-6<br>99-3590-8 |               |

Bell Alarm Module



Bell Alarm Module

- Simple snap-on mounting — see mounting examples in Figure 33-69.
- Isolated NO and NC contacts (1 each)
- Plugs into Reset port
- Remote electrical Reset wired to Catalog Number WBELL module

Table 33-317. Ratings

| Form C Contact Ratings<br>Maximum Amperes —<br>120V AC |        | Catalog<br>Number | Price<br>U.S. \$ |
|--------------------------------------------------------|--------|-------------------|------------------|
| Make                                                   | Break  |                   |                  |
| 2880 VA                                                | 480 VA | WBELL             |                  |
| Continuous Current Rating: 5A                          |        |                   |                  |

## Product Family Overview

## Catalog Number Selection

### Table 33-337. Advantage Line Enclosed Control Catalog Numbering System

**EC A 22 2 1 A A F -**

**Design**  
A = Advantage NEMA

**Modification Codes**  
See Page 33-42

| Class                                                                        | Table  |
|------------------------------------------------------------------------------|--------|
| 01 = Contactors                                                              | ①      |
| 02 = Reversing Contactors                                                    | ①      |
| 05 = Non-combination Non-reversing Starter                                   | 33-341 |
| 06 = Non-combination Reversing Starter                                       | ①      |
| 07 = Non-combination Non-reversing Starter, with CPT                         | ①      |
| 16 = Combination Non-reversing Starter — Fusible Disconnect                  | 33-342 |
| 17 = Combination Reversing Starter with Disconnect Switch                    | ①      |
| 18 = Combination Reversing Starter — Fusible/Non-fusible Disconnect with CPT | 33-343 |
| 22 = Combination Non-reversing Starter — Circuit Breaker                     | 33-344 |
| 23 = Reversing, Combination with HMCP/E                                      | ①      |
| 24 = Combination with HMCP/E with CPT                                        | ①      |
| 33 = Multispeed 2S2W Non-combination                                         | ①      |
| 34 = Multispeed 2S1W CT or VT Non-combination                                | ①      |
| 35 = Multispeed 2S1W CH Non-combination                                      | ①      |
| 36 = Multispeed with Disconnect Switch, 2S2W                                 | ①      |
| 37 = Multispeed with Disconnect Switch, 2S1W CT or VT                        | ①      |
| 38 = Multispeed with Disconnect Switch, 2S1W CH                              | ①      |
| 39 = Multispeed with HMCP/E, 2S2W                                            | ①      |
| 40 = Multispeed with HMCP/E, 2S1W CT or VT                                   | ①      |
| 41 = Multispeed with HMCP/E, 2S1W CH                                         | ①      |
| 42 = Autotransformer, Non-combination                                        | ①      |
| 43 = Autotransformer, with Disconnect Switch                                 | ①      |
| 44 = Autotransformer, with HMCP/E                                            | ①      |
| 45 = Part-Winding, Non-combination                                           | ①      |
| 46 = Part-Winding, with Disconnect Switch                                    | ①      |
| 47 = Part-Winding, with HMCP/E                                               | ①      |
| 48 = Y-D, Open Transition, Non-combination                                   | ①      |
| 49 = Y-D, Open Transition, with Disconnect Switch                            | ①      |
| 50 = Y-D, Open Transition, with HMCP/E                                       | ①      |
| 51 = Y-D, Closed Transition, Non-combination                                 | ①      |
| 52 = Y-D, Closed Transition, with Disconnect Switch                          | ①      |
| 53 = Y-D, Closed Transition, with HMCP/E                                     | ①      |
| 54 = Std Width Pump Panel, with Disconnect Switch                            | ①      |
| 55 = Std Width Pump Panel, with HMCP/E                                       | ①      |
| 62 = Autotransformer Pump Panel, Disconnect Switch                           | ①      |
| 63 = Autotransformer Pump Panel, HMCP/E                                      | ①      |
| 64 = Part-Winding Pump Panel, Disconnect                                     | ①      |
| 65 = Part-Winding Pump Panel, Circuit Breaker                                | ①      |
| 68 = Duplex, Non-combination                                                 | ①      |
| 69 = Duplex, with Disconnect Switch                                          | ①      |
| 70 = Duplex, with HMCP/E                                                     | ①      |

**Cover Control — Starters**

10250T and E22 style, see **Tables 33-186 – 33-188**

Flange-Mounted ACM, see **Table 33-340**

**Contactors**

3 = 3 Poles

**Coil Voltage and/or Control Transformers**

See **Tables 33-338 and 33-339**

**Disconnect Fuse Clip Ratings**

|                        |                        |                           |
|------------------------|------------------------|---------------------------|
| <b>A</b> = None        | <b>G</b> = 100A/600V R | <b>N</b> = 600A/600V R    |
| <b>B</b> = 30A/250V R  | <b>H</b> = 200A/250V R | <b>P</b> = 800A/600V R    |
| <b>C</b> = 30A/600V R  | <b>J</b> = 200A/600V R | <b>Q</b> = 1200A/600V R   |
| <b>D</b> = 60A/250V R  | <b>K</b> = 400A/250V R | <b>R</b> = 1600A/600V R   |
| <b>E</b> = 60A/600V R  | <b>L</b> = 400A/600V R | <b>S</b> = 2000A/600V R   |
| <b>F</b> = 100A/250V R | <b>M</b> = 600A/250V R | <b>T</b> = by Description |

**HMCP/E or Breaker Ratings**

|                 |                  |                           |
|-----------------|------------------|---------------------------|
| <b>A</b> = None | <b>H</b> = 150A  | <b>R</b> = 3000A          |
| <b>B</b> = 3A   | <b>J</b> = 250A  | <b>T</b> = by Description |
| <b>C</b> = 7A   | <b>K</b> = 400A  | <b>5</b> = 3A ②           |
| <b>D</b> = 15A  | <b>L</b> = 600A  | <b>6</b> = 7A ②           |
| <b>E</b> = 30A  | <b>M</b> = 800A  | <b>7</b> = 15A ②          |
| <b>F</b> = 50A  | <b>N</b> = 1000A | <b>8</b> = 30A ②          |
| <b>W</b> = 70A  | <b>P</b> = 1200A | <b>9</b> = 50A ②          |
| <b>G</b> = 100A | <b>Q</b> = 2000A | <b>I</b> = 100A ②         |

**Enclosure Type**

1 = Type 1 — General Purpose

2 = Type 3R — Rainproof

3 = Type 4 — Watertight (Painted Steel)

4 = Type 4X — Watertight (304-Grade Stainless Steel)

5 = Type 4X — Corrosion (Nonmetallic)

6 = Type 7/9 — Bolted Hazardous Location

7 = Type 7/9 — Threaded Hazardous Location

8 = Type 12 — Dust-Tight

9 = Type 4X — 316-Grade Stainless Steel

**NEMA Size**

|                    |                   |
|--------------------|-------------------|
| <b>L</b> = Lower 1 | <b>4</b> = Size 4 |
| <b>1</b> = Size 1  | <b>5</b> = Size 5 |
| <b>2</b> = Size 2  | <b>6</b> = Size 6 |
| <b>3</b> = Size 3  |                   |

① Contact Eaton for more information.

② Use with Sizes L – 3, HMCP 600V applications only.

**Table 33-338. Magnet Coil Codes (System Voltage) ③**

| Code   | Magnet Coil      | Code | Magnet Coil    |
|--------|------------------|------|----------------|
| F<br>N | 120/60<br>110/50 | Z    | By Description |

③ When control power transformer modification codes (**C1 – C11**) are used or when starter class includes CPT (i.e. ECN07, 18), see **Table 33-339** for system voltage code.

**Table 33-339. Control Power Transformer Codes (System Voltage)**

| Code     | Primary                             | Secondary       | Code     | Primary                       | Secondary |
|----------|-------------------------------------|-----------------|----------|-------------------------------|-----------|
| <b>B</b> | 240/480 – 220/440<br>Wired for 240V | 120/60 – 110/50 | <b>H</b> | 277/60                        | 120/60    |
| <b>C</b> | 240/480 – 220/440<br>Wired for 480V | 120/60 – 110/50 | <b>L</b> | 380/50                        | 110/50    |
| <b>D</b> | 600/60 – 550/50                     | 120/60 – 110/50 | <b>M</b> | 415/50                        | 110/50    |
| <b>E</b> | 208/60                              | 120/60          | <b>X</b> | 240/480/600<br>Wired for 480V | 120       |
|          |                                     |                 | <b>Z</b> | By Description                |           |