



7908/7916

System 9000 Backplane

**Yokogawa wiring manual
and I/O card reference list**

No. 7900YWM101_UK

- DK** ▶ PR electronics A/S tilbyder et bredt program af analoge og digitale signalbehandlingsmoduler til industriel automation. Programmet består af Isolatorer, Displays, Ex-barrierer, Temperaturtransmittere, Universaltransmittere mfl. Vi har modulerne, du kan stole på i selv barske miljøer med elektrisk støj, vibrationer og temperaturudsving, og alle produkter opfylder de strengeste internationale standarder. Vores motto »Signals the Best« er indbegrebet af denne filosofi - og din garanti for kvalitet.
- UK** ▶ PR electronics A/S offers a wide range of analogue and digital signal conditioning modules for industrial automation. The product range includes Isolators, Displays, Ex Interfaces, Temperature Transmitters, and Universal Modules. You can trust our products in the most extreme environments with electrical noise, vibrations and temperature fluctuations, and all products comply with the most exacting international standards. »Signals the Best« is the epitome of our philosophy - and your guarantee for quality.
- FR** ▶ PR electronics A/S offre une large gamme de produits pour le traitement des signaux analogiques et numériques dans tous les domaines industriels. La gamme de produits s'étend des transmetteurs de température aux afficheurs, des isolateurs aux interfaces SI, jusqu'aux modules universels. Vous pouvez compter sur nos produits même dans les conditions d'utilisation sévères, p.ex. bruit électrique, vibrations et fluctuations de température. Tous nos produits sont conformes aux normes internationales les plus strictes. Notre devise »SIGNALS the BEST« c'est notre ligne de conduite - et pour vous l'assurance de la meilleure qualité.
- DE** ▶ PR electronics A/S verfügt über ein breites Produktprogramm an analogen und digitalen Signalverarbeitungsmodulen für die industrielle Automatisierung. Dieses Programm umfasst Displays, Temperaturtransmitter, Ex- und galvanische Signaltrenner, und Universalgeräte. Sie können unsere Geräte auch unter extremen Einsatzbedingungen wie elektrisches Rauschen, Erschütterungen und Temperaturschwingungen vertrauen, und alle Produkte von PR electronics werden in Übereinstimmung mit den strengsten internationalen Normen produziert. »Signals the Best« ist Ihre Garantie für Qualität!

SYSTEM 9000 BACKPLANE

YOKOGAWA WIRING MANUAL AND I/O CARD REFERENCE LIST

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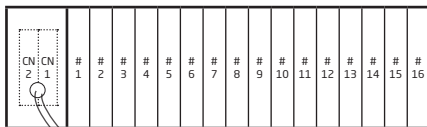
SUPPORTED YOKOGAWA DCS SYSTEMS & I/O CARDS

| DCS System | I/O card reference | I/O type | PR System 9000 device | # Slot | PR Ordering references |
|----------------|--------------------|------------------|---------------------------|----------------|------------------------|
| Centum | AAI141 | 16 x AI | 8 x 9106BxB | 1...8 | 7908-YoCen-A2B |
| | | | 8 x 9113BB | | |
| | AAI841 | 8 x AI 8 x AO | 4 x 9106BxB 4 x 9107BB | 1...4 5...8 | 7908-YoCen-B2F |
| | ADV151 | 32 x DI | 16 x 9202BxB | 1...16 | 7916-YoCen-C2H |
| | ADV161* | | | | |
| | ADV551 | 32 x DO | 16 x 9203BxB | 1...16 | 7916-YoCen-D2J |
| ADV561* | | | | | |
| Prosafe | SAI143 | 16 x AI | 8 x 9106BxB | 1...8 | 7908-YoPro-A2B |
| | SDV144 | 16 x DI | 8 x 9202BxB | 1...8 | 7908-YoPro-D2H |
| | SDV531 | 8 x DO | 8 x 9203BxA | 1...8 | 7908-YoPro-E2I |
| | SDV541 | 16 x DO | 16 x 9203BxA | 1...16 | 7916-YoPro-F2I |

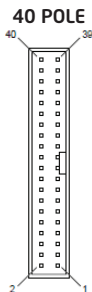
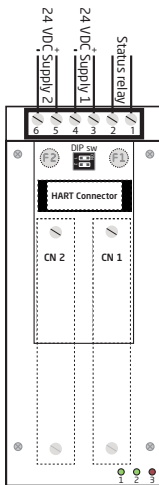
Please note:

(*) For ADV161 and ADV561 two backplanes must be used for giving a total of 64 x DI or 64 DO for the I/O cards.

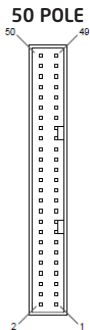
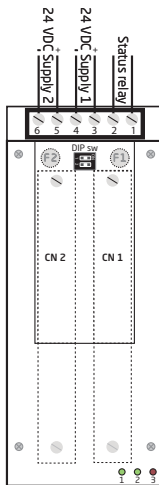
SUPPLY AND STATUS RELAY CONNECTIONS AND YOKOGAWA SYSTEM CABLE CONNECTORS



**9106 & 9107
BACKPLANE BOARD**



**9202 & 9203
BACKPLANE BOARD**



Please note:

CN1 and CN2 are connected in parallel for all Yokogawa I/O cards.

BACKPLANE TO YOKOGAWA CENTUM I/O CARD WIRING

**AAI141 card wiring, 16 x AI,
PR 9106 2 channels**

| 9106BxB I.S. Input terminals | | | | 40 pole DCS connection |
|---------------------------------|-----|------------------|------------------|--------------------------|
| Unit | Ch. | Z-w Tx mA-signal | Active mA-signal | Signal name / Pin number |
| #1 | 1 | 44 (+) | 41 (-) | IN1A / 40 |
| | | 43 (-) | 42 (+) | IN1B / 39 |
| | 2 | 54 (+) | 51 (-) | IN2A / 38 |
| | | 53 (-) | 52 (+) | IN2B / 37 |
| #2 | 1 | 44 (+) | 41 (-) | IN3A / 36 |
| | | 43 (-) | 42 (+) | IN3B / 35 |
| | 2 | 54 (+) | 51 (-) | IN4A / 34 |
| | | 53 (-) | 52 (+) | IN4B / 33 |
| #3 | 1 | 44 (+) | 41 (-) | IN5A / 32 |
| | | 43 (-) | 42 (+) | IN5B / 31 |
| | 2 | 54 (+) | 51 (-) | IN6A / 30 |
| | | 53 (-) | 52 (+) | IN6B / 29 |
| #4 | 1 | 44 (+) | 41 (-) | IN7A / 28 |
| | | 43 (-) | 42 (+) | IN7B / 27 |
| | 2 | 54 (+) | 51 (-) | IN8A / 26 |
| | | 53 (-) | 52 (+) | IN8B / 25 |
| #5 | 1 | 44 (+) | 41 (-) | IN9A / 24 |
| | | 43 (-) | 42 (+) | IN9B / 23 |
| | 2 | 54 (+) | 51 (-) | IN10A / 22 |
| | | 53 (-) | 52 (+) | IN10B / 21 |
| #6 | 1 | 44 (+) | 41 (-) | IN11A / 20 |
| | | 43 (-) | 42 (+) | IN11B / 19 |
| | 2 | 54 (+) | 51 (-) | IN12A / 18 |
| | | 53 (-) | 52 (+) | IN12B / 17 |
| #7 | 1 | 44 (+) | 41 (-) | IN13A / 16 |
| | | 43 (-) | 42 (+) | IN13B / 15 |
| | 2 | 54 (+) | 51 (-) | IN14A / 14 |
| | | 53 (-) | 52 (+) | IN14B / 13 |
| #8 | 1 | 44 (+) | 41 (-) | IN15A / 12 |
| | | 43 (-) | 42 (+) | IN15B / 11 |
| | 2 | 54 (+) | 51 (-) | IN16A / 10 |
| | | 53 (-) | 52 (+) | IN16B / 09 |

**AAI141 card wiring, 16 x AI,
PR 9113 2 channels**

| 9113BB I.S. input terminals | | | | | 40 pole DCS connection |
|--------------------------------|-----|-----------------------------|--------|---------|--------------------------|
| Unit | Ch. | RTD, 2- / 3- / 4-wire | TC | Current | Signal name / Pin number |
| #1 | 1 | 43 or 43/41 or 43/41/44 (*) | 41 (+) | 43 (+) | IN1A / 40 |
| | | 42 | 42 (-) | 42 (-) | IN1B / 39 |
| | 2 | 53 or 53/51 or 53/51/54 (*) | 51 (+) | 53 (+) | IN2A / 38 |
| | | 52 | 52 (-) | 52 (-) | IN2B / 37 |
| #2 | 1 | 43 or 43/41 or 43/41/44 (*) | 41 (+) | 43 (+) | IN3A / 36 |
| | | 42 | 42 (-) | 42 (-) | IN3B / 35 |
| | 2 | 53 or 53/51 or 53/51/54 (*) | 51 (+) | 53 (+) | IN4A / 34 |
| | | 52 | 52 (-) | 52 (-) | IN4B / 33 |
| #3 | 1 | 43 or 43/41 or 43/41/44 (*) | 41 (+) | 43 (+) | IN5A / 32 |
| | | 42 | 42 (-) | 42 (-) | IN5B / 31 |
| | 2 | 53 or 53/51 or 53/51/54 (*) | 51 (+) | 53 (+) | IN6A / 30 |
| | | 52 | 52 (-) | 52 (-) | IN6B / 29 |
| #4 | 1 | 43 or 43/41 or 43/41/44 (*) | 41 (+) | 43 (+) | IN7A / 28 |
| | | 42 | 42 (-) | 42 (-) | IN7B / 27 |
| | 2 | 53 or 53/51 or 53/51/54 (*) | 51 (+) | 53 (+) | IN8A / 26 |
| | | 52 | 52 (-) | 52 (-) | IN8B / 25 |
| #5 | 1 | 43 or 43/41 or 43/41/44 (*) | 41 (+) | 43 (+) | IN9A / 24 |
| | | 42 | 42 (-) | 42 (-) | IN9B / 23 |
| | 2 | 53 or 53/51 or 53/51/54 (*) | 51 (+) | 53 (+) | IN10A / 22 |
| | | 52 | 52 (-) | 52 (-) | IN10B / 21 |
| #6 | 1 | 43 or 43/41 or 43/41/44 (*) | 41 (+) | 43 (+) | IN11A / 20 |
| | | 42 | 42 (-) | 42 (-) | IN11B / 19 |
| | 2 | 53 or 53/51 or 53/51/54 (*) | 51 (+) | 53 (+) | IN12A / 18 |
| | | 52 | 52 (-) | 52 (-) | IN12B / 17 |
| #7 | 1 | 43 or 43/41 or 43/41/44 (*) | 41 (+) | 43 (+) | IN13A / 16 |
| | | 42 | 42 (-) | 42 (-) | IN13B / 15 |
| | 2 | 53 or 53/51 or 53/51/54 (*) | 51 (+) | 53 (+) | IN14A / 14 |
| | | 52 | 52 (-) | 52 (-) | IN14B / 13 |
| #8 | 1 | 43 or 43/41 or 43/41/44 (*) | 41 (+) | 43 (+) | IN15A / 12 |
| | | 42 | 42 (-) | 42 (-) | IN15B / 11 |
| | 2 | 53 or 53/51 or 53/51/54 (*) | 51 (+) | 53 (+) | IN16A / 10 |
| | | 52 | 52 (-) | 52 (-) | IN16B / 09 |

Please note:

(*) Check 9113 manual for correct contact input wiring.

**AAI841 card wiring, 8 x AI & 8 x AO,
PR 9106, 2 channels & PR 9107, 2 channels**

| 9106BxB I.S. Input terminals | | | | 40 pole DCS connection |
|---------------------------------|-----|------------------|------------------|--------------------------|
| Unit | Ch. | Z-w Tx mA-signal | Active mA-signal | Signal name / Pin number |
| #1 | 1 | 44 (+) | 41 (-) | IN1A / 40 |
| | | 43 (-) | 42 (+) | IN1B / 39 |
| | 2 | 54 (+) | 51 (-) | IN2A / 38 |
| | | 53 (-) | 52 (+) | IN2B / 37 |
| #2 | 1 | 44 (+) | 41 (-) | IN3A / 36 |
| | | 43 (-) | 42 (+) | IN3B / 35 |
| | 2 | 54 (+) | 51 (-) | IN4A / 34 |
| | | 53 (-) | 52 (+) | IN4B / 33 |
| #3 | 1 | 44 (+) | 41 (-) | IN5A / 32 |
| | | 43 (-) | 42 (+) | IN5B / 31 |
| | 2 | 54 (+) | 51 (-) | IN6A / 30 |
| | | 53 (-) | 52 (+) | IN6B / 29 |
| #4 | 1 | 44 (+) | 41 (-) | IN7A / 28 |
| | | 43 (-) | 42 (+) | IN7B / 27 |
| | 2 | 54 (+) | 51 (-) | IN8A / 26 |
| | | 53 (-) | 52 (+) | IN8B / 25 |
| 9107BB I.S. Output terminals | | | | |
| #5 | 1 | - | 42 (+) | OUT1+ / 24 |
| | | - | 41 (-) | OUT1- / 23 |
| | 2 | - | 52 (+) | OUT2+ / 22 |
| | | - | 51 (-) | OUT2- / 21 |
| #6 | 1 | - | 42 (+) | OUT3+ / 20 |
| | | - | 41 (-) | OUT3- / 19 |
| | 2 | - | 52 (+) | OUT4+ / 18 |
| | | - | 51 (-) | OUT4- / 17 |
| #7 | 1 | - | 42 (+) | OUT5+ / 16 |
| | | - | 41 (-) | OUT5- / 15 |
| | 2 | - | 52 (+) | OUT6+ / 14 |
| | | - | 51 (-) | OUT6- / 13 |
| #8 | 1 | - | 42 (+) | OUT7+ / 12 |
| | | - | 41 (-) | OUT7- / 11 |
| | 2 | - | 52 (+) | OUT8+ / 10 |
| | | - | 51 (-) | OUT8- / 09 |

**ADV151 card wiring, 32 x DI,
PR 9202, 2 channels**

| 9202BxB I.S. Input terminals | | | | 50 pole DCS connection |
|---------------------------------|-----|--------------|-----------------------|-------------------------------|
| Unit | Ch. | NAMUR sensor | Contact signal | Signal name / Pin number |
| #1 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN1 / 50 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN2 / 48 |
| | | 52 (-) | 52 | COM 1-16 (**)/ 12, 14, 16, 18 |
| #2 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN3 / 46 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN4 / 44 |
| | | 52 (-) | 52 | COM 1-16 (**)/ 12, 14, 16, 18 |
| #3 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN5 / 42 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN6 / 40 |
| | | 52 (-) | 52 | COM 1-16 (**)/ 12, 14, 16, 18 |
| #4 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN7 / 38 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN8 / 36 |
| | | 52 (-) | 52 | COM 1-16 (**)/ 12, 14, 16, 18 |
| #5 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN9 / 34 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN10 / 32 |
| | | 52 (-) | 52 | COM 1-16 (**)/ 12, 14, 16, 18 |
| #6 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN11 / 30 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN12 / 28 |
| | | 52 (-) | 52 | COM 1-16 / 12, 14, 16, 18 |
| #7 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN13 / 26 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN14 / 24 |
| | | 52 (-) | 52 | COM 1-16 (**)/ 12, 14, 16, 18 |
| #8 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN15 / 22 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN16 / 20 |
| | | 52 (-) | 52 | COM 1-16 (**)/ 12, 14, 16, 18 |

Please note:

(*) Check 9202 manual for correct contact input wiring.

(**) COM1-16 are shorted internally on the Backplane.

| 9202BxB I.S. Input terminals | | | | 50 pole DCS connection |
|---------------------------------|-----|--------------|-----------------------|---------------------------------|
| Unit | Ch. | NAMUR sensor | Contact signal | Signal name / Pin number |
| #9 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN17 / 49 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN18 / 47 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |
| #10 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN19 / 45 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN20 / 43 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |
| #11 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN21 / 41 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN22 / 39 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |
| #12 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN23 / 37 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN24 / 35 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |
| #13 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN25 / 33 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN26 / 31 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |
| #14 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN27 / 29 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN28 / 27 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |
| #15 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN29 / 25 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN30 / 23 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |
| #16 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN31 / 21 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN32 / 19 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |

Please note:

(*) Check 9202 manual for correct contact input wiring.

(**) COM17-32 are shorted internally on the Backplane.

**ADV161 card wiring, 32 x DI,
PR 9202 2 channels, Backplane #1**

| 9202BxB I.S. Input terminals | | | | 50 pole DCS connection |
|---------------------------------|-----|--------------|-----------------------|-------------------------------|
| Unit | Ch. | NAMUR sensor | Contact signal | Signal name / Pin number |
| #1 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN1 / 50 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN2 / 48 |
| | | 52 (-) | 52 | COM 1-16 (**)/ 12, 14, 16, 18 |
| #2 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN3 / 46 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN4 / 44 |
| | | 52 (-) | 52 | COM 1-16 (**)/ 12, 14, 16, 18 |
| #3 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN5 / 42 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN6 / 40 |
| | | 52 (-) | 52 | COM 1-16 (**)/ 12, 14, 16, 18 |
| #4 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN7 / 38 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN8 / 36 |
| | | 52 (-) | 52 | COM 1-16 (**)/ 12, 14, 16, 18 |
| #5 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN9 / 34 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN10 / 32 |
| | | 52 (-) | 52 | COM 1-16 (**)/ 12, 14, 16, 18 |
| #6 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN11 / 30 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN12 / 28 |
| | | 52 (-) | 52 | COM 1-16 (**)/ 12, 14, 16, 18 |
| #7 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN13 / 26 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN14 / 24 |
| | | 52 (-) | 52 | COM 1-16 (**)/ 12, 14, 16, 18 |
| #8 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN15 / 22 |
| | | 42 (-) | 42 | COM 1-16 (**)/ 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN16 / 20 |
| | | 52 (-) | 52 | COM 1-16 (**)/ 12, 14, 16, 18 |

Please note:

(*) Check 9202 manual for correct contact input wiring.

(**) COM1-16 are shorted internally on the Backplane.

| 9202BxB I.S. Input terminals | | | | 50 pole DCS connection |
|---------------------------------|-----|--------------|-----------------------|---------------------------------|
| Unit | Ch. | NAMUR sensor | Contact signal | Signal name / Pin number |
| #9 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN17 / 49 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN18 / 47 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |
| #10 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN19 / 45 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN20 / 43 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |
| #11 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN21 / 41 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN22 / 39 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |
| #12 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN23 / 37 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN24 / 35 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |
| #13 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN25 / 33 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN26 / 31 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |
| #14 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN27 / 29 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN28 / 27 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |
| #15 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN29 / 25 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN30 / 23 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |
| #16 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN31 / 21 |
| | | 42 (-) | 42 | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN32 / 19 |
| | | 52 (-) | 52 | COM 17-32 (**) / 11, 13, 15, 17 |

Please note:

(*) Check 9202 manual for correct contact input wiring.

(**) COM17-32 are shorted internally on the Backplane.

**ADV161 card wiring, 32 x DI,
PR 9202 2 channels, Backplane #2**

| 9202BxB I.S. Input terminals | | | | 50 pole DCS connection |
|---------------------------------|-----|--------------|-----------------------|---------------------------------|
| Unit | Ch. | NAMUR sensor | Contact signal | Signal name / Pin number |
| #1 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN33 / 50 |
| | | 42 (-) | 42 | COM 33-48 (**) / 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN34 / 48 |
| | | 52 (-) | 52 | COM 33-48 (**) / 12, 14, 16, 18 |
| #2 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN35 / 46 |
| | | 42 (-) | 42 | COM 33-48 (**) / 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN36 / 44 |
| | | 52 (-) | 52 | COM 33-48 (**) / 12, 14, 16, 18 |
| #3 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN37 / 42 |
| | | 42 (-) | 42 | COM 33-48 (**) / 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN38 / 40 |
| | | 52 (-) | 52 | COM 33-48 (**) / 12, 14, 16, 18 |
| #4 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN39 / 38 |
| | | 42 (-) | 42 | COM 33-48 (**) / 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN40 / 36 |
| | | 52 (-) | 52 | COM 33-48 (**) / 12, 14, 16, 18 |
| #5 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN41 / 34 |
| | | 42 (-) | 42 | COM 33-48 (**) / 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN42 / 32 |
| | | 52 (-) | 52 | COM 33-48 (**) / 12, 14, 16, 18 |
| #6 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN43 / 30 |
| | | 42 (-) | 42 | COM 33-48 (**) / 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN44 / 28 |
| | | 52 (-) | 52 | COM 33-48 (**) / 12, 14, 16, 18 |
| #7 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN45 / 26 |
| | | 42 (-) | 42 | COM 33-48 (**) / 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN46 / 24 |
| | | 52 (-) | 52 | COM 33-48 (**) / 12, 14, 16, 18 |
| #8 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN47 / 22 |
| | | 42 (-) | 42 | COM 33-48 (**) / 12, 14, 16, 18 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN48 / 20 |
| | | 52 (-) | 52 | COM 33-48 (**) / 12, 14, 16, 18 |

Please note:

- (*) Check 9202 manual for correct contact input wiring.
- (**) COM33-48 are shorted internally on the Backplane.

| 9202BxB I.S. Input terminals | | | | 50 pole DCS connection |
|---------------------------------|-----|--------------|-----------------------|---------------------------------|
| Unit | Ch. | NAMUR sensor | Contact signal | Signal name / Pin number |
| #9 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN49 / 49 |
| | | 42 (-) | 42 | COM 49-64 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN50 / 47 |
| | | 52 (-) | 52 | COM 49-64 (**) / 11, 13, 15, 17 |
| #10 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN51 / 45 |
| | | 42 (-) | 42 | COM 49-64 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN52 / 43 |
| | | 52 (-) | 52 | COM 49-64 (**) / 11, 13, 15, 17 |
| #11 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN53 / 41 |
| | | 42 (-) | 42 | COM 49-64 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN54 / 39 |
| | | 52 (-) | 52 | COM 49-64 (**) / 11, 13, 15, 17 |
| #12 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN55 / 37 |
| | | 42 (-) | 42 | COM 49-64 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN56 / 35 |
| | | 52 (-) | 52 | COM 49-64 (**) / 11, 13, 15, 17 |
| #13 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN57 / 33 |
| | | 42 (-) | 42 | COM 49-64 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN58 / 31 |
| | | 52 (-) | 52 | COM 49-64 (**) / 11, 13, 15, 17 |
| #14 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN59 / 29 |
| | | 42 (-) | 42 | COM 49-64 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN60 / 27 |
| | | 52 (-) | 52 | COM 49-64 (**) / 11, 13, 15, 17 |
| #15 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN61 / 25 |
| | | 42 (-) | 42 | COM 49-64 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN62 / 23 |
| | | 52 (-) | 52 | COM 49-64 (**) / 11, 13, 15, 17 |
| #16 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | IN63 / 21 |
| | | 42 (-) | 42 | COM 49-64 (**) / 11, 13, 15, 17 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | IN64 / 19 |
| | | 52 (-) | 52 | COM 49-64 (**) / 11, 13, 15, 17 |

Please note:

(*) Check 9202 manual for correct contact input wiring.

(**) COM49-64 are shorted internally on the Backplane.

**ADV551 card wiring, 32 x DO,
PR 9203 2 channels**

| 9203BxB I.S. Output terminals | | | | 50 pole DCS connection |
|----------------------------------|-----|-------------------|-------------------|-------------------------------|
| Unit | Ch. | Output (+) signal | Return (-) signal | Signal name / Pin number |
| #1 | 1 | 42, 43, 44 (*) | 41 | OUT1 / 50 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #1 | 2 | 52, 53, 54 (*) | 51 | OUT2 / 48 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #2 | 1 | 42, 43, 44 (*) | 41 | OUT3 / 46 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #2 | 2 | 52, 53, 54 (*) | 51 | OUT4 / 44 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #3 | 1 | 42, 43, 44 (*) | 41 | OUT5 / 42 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #3 | 2 | 52, 53, 54 (*) | 51 | OUT6 / 40 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #4 | 1 | 42, 43, 44 (*) | 41 | OUT7 / 38 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #4 | 2 | 52, 53, 54 (*) | 51 | OUT8 / 36 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #5 | 1 | 42, 43, 44 (*) | 41 | OUT9 / 34 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #5 | 2 | 52, 53, 54 (*) | 51 | OUT10 / 32 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #6 | 1 | 42, 43, 44 (*) | 41 | OUT11 / 30 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #6 | 2 | 52, 53, 54 (*) | 51 | OUT12 / 28 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #7 | 1 | 42, 43, 44 (*) | 41 | OUT13 / 26 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #7 | 2 | 52, 53, 54 (*) | 51 | OUT14 / 24 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #8 | 1 | 42, 43, 44 (*) | 41 | OUT15 / 22 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #8 | 2 | 52, 53, 54 (*) | 51 | OUT16 / 20 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |

Please note:

(*) Check 9203 manual for correct output signal wiring.

(**) COM1-16 are shorted internally on the Backplane.

| 9203BxB I.S. Output terminals | | | | 50 pole DCS connection |
|----------------------------------|-----|-------------------|-------------------|---------------------------------|
| Unit | Ch. | Output (+) signal | Return (-) signal | Signal name / Pin number |
| #9 | 1 | 42, 43, 44 (*) | 41 | OUT17 / 49 |
| | | | | COM 17-32 (**) / 11, 13, 15, 17 |
| | 2 | 52, 53, 54 (*) | 51 | OUT18 / 47 |
| #10 | 1 | 42, 43, 44 (*) | 41 | COM 17-32 (**) / 11, 13, 15, 17 |
| | | | | OUT19 / 45 |
| | 2 | 52, 53, 54 (*) | 51 | OUT20 / 43 |
| #11 | 1 | 42, 43, 44 (*) | 41 | COM 17-32 (**) / 11, 13, 15, 17 |
| | | | | OUT21 / 41 |
| | 2 | 52, 53, 54 (*) | 51 | OUT22 / 39 |
| #12 | 1 | 42, 43, 44 (*) | 41 | COM 17-32 (**) / 11, 13, 15, 17 |
| | | | | OUT23 / 37 |
| | 2 | 52, 53, 54 (*) | 51 | OUT24 / 35 |
| #13 | 1 | 42, 43, 44 (*) | 41 | COM 17-32 (**) / 11, 13, 15, 17 |
| | | | | OUT25 / 33 |
| | 2 | 52, 53, 54 (*) | 51 | OUT26 / 31 |
| #14 | 1 | 42, 43, 44 (*) | 41 | COM 17-32 (**) / 11, 13, 15, 17 |
| | | | | OUT27 / 29 |
| | 2 | 52, 53, 54 (*) | 51 | OUT28 / 27 |
| #15 | 1 | 42, 43, 44 (*) | 41 | COM 17-32 (**) / 11, 13, 15, 17 |
| | | | | OUT29 / 25 |
| | 2 | 52, 53, 54 (*) | 51 | OUT30 / 23 |
| #16 | 1 | 42, 43, 44 (*) | 41 | COM 17-32 (**) / 11, 13, 15, 17 |
| | | | | OUT31 / 21 |
| | 2 | 52, 53, 54 (*) | 51 | OUT32 / 19 |
| | | | | COM 17-32 (**) / 11, 13, 15, 17 |

Please note:

(*) Check 9203 manual for correct output signal wiring.

(**) COM17-32 are shorted internally on the Backplane.

**ADV561 card wiring, 32 x DO,
PR 9203 2 channels, Backplane #1**

| 9203BxB I.S. Output terminals | | | | 50 pole DCS connection |
|----------------------------------|-----|-------------------|-------------------|-------------------------------|
| Unit | Ch. | Output (+) signal | Return (-) signal | Signal name / Pin number |
| #1 | 1 | 42, 43, 44 (*) | 41 | OUT1 / 50 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #1 | 2 | 52, 53, 54 (*) | 51 | OUT2 / 48 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #2 | 1 | 42, 43, 44 (*) | 41 | OUT3 / 46 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #2 | 2 | 52, 53, 54 (*) | 51 | OUT4 / 44 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #3 | 1 | 42, 43, 44 (*) | 41 | OUT5 / 42 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #3 | 2 | 52, 53, 54 (*) | 51 | OUT6 / 40 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #4 | 1 | 42, 43, 44 (*) | 41 | OUT7 / 38 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #4 | 2 | 52, 53, 54 (*) | 51 | OUT8 / 36 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #5 | 1 | 42, 43, 44 (*) | 41 | OUT9 / 34 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #5 | 2 | 52, 53, 54 (*) | 51 | OUT10 / 32 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #6 | 1 | 42, 43, 44 (*) | 41 | OUT11 / 30 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #6 | 2 | 52, 53, 54 (*) | 51 | OUT12 / 28 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #7 | 1 | 42, 43, 44 (*) | 41 | OUT13 / 26 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #7 | 2 | 52, 53, 54 (*) | 51 | OUT14 / 24 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #8 | 1 | 42, 43, 44 (*) | 41 | OUT15 / 22 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |
| #8 | 2 | 52, 53, 54 (*) | 51 | OUT16 / 20 |
| | | | | COM 1-16 (**)/ 12, 14, 16, 18 |

Please note:

(*) Check 9203 manual for correct output signal wiring.

(**) COM1-16 are shorted internally on the Backplane.

| 9203BxB I.S. Output terminals | | | | 50 pole DCS connection |
|----------------------------------|-----|------------------|-----------------|--------------------------------|
| Unit | Ch. | Output + signals | Return - signal | Signal name / Pin number |
| #9 | 1 | 42, 43, 44 (*) | 41 | OUT17 / 49 |
| | | | | COM 17-32 (**)/ 11, 13, 15, 17 |
| | 2 | 52, 53, 54 (*) | 51 | OUT18 / 47 |
| #10 | 1 | 42, 43, 44 (*) | 41 | COM 17-32 (**)/ 11, 13, 15, 17 |
| | | | | OUT19 / 45 |
| | 2 | 52, 53, 54 (*) | 51 | OUT20 / 43 |
| #11 | 1 | 42, 43, 44 (*) | 41 | COM 17-32 (**)/ 11, 13, 15, 17 |
| | | | | OUT21 / 41 |
| | 2 | 52, 53, 54 (*) | 51 | OUT22 / 39 |
| #12 | 1 | 42, 43, 44 (*) | 41 | COM 17-32 (**)/ 11, 13, 15, 17 |
| | | | | OUT23 / 37 |
| | 2 | 52, 53, 54 (*) | 51 | OUT24 35 |
| #13 | 1 | 42, 43, 44 (*) | 41 | COM 17-32 (**)/ 11, 13, 15, 17 |
| | | | | OUT25 / 33 |
| | 2 | 52, 53, 54 (*) | 51 | OUT26 / 31 |
| #14 | 1 | 42, 43, 44 (*) | 41 | COM 17-32 (**)/ 11, 13, 15, 17 |
| | | | | OUT27 / 29 |
| | 2 | 52, 53, 54 (*) | 51 | OUT28 / 27 |
| #15 | 1 | 42, 43, 44 (*) | 41 | COM 17-32 (**)/ 11, 13, 15, 17 |
| | | | | OUT29 / 25 |
| | 2 | 52, 53, 54 (*) | 51 | OUT30 / 23 |
| #16 | 1 | 42, 43, 44 (*) | 41 | COM 17-32 (**)/ 11, 13, 15, 17 |
| | | | | OUT31 / 21 |
| | 2 | 52, 53, 54 (*) | 51 | OUT32 / 19 |
| | | | | COM 17-32 (**)/ 11, 13, 15, 17 |

Please note:

(*) Check 9203 manual for correct output signal wiring.

(**) COM17-32 are shorted internally on the Backplane.

**ADV561 card wiring, 32 x DO,
PR 9203 2 channels, Backplane #2**

| 9203BxB I.S. Output terminals | | | | 50 pole DCS connection |
|----------------------------------|-----|-------------------|-------------------|--|
| Unit | Ch. | Output (+) signal | Return (-) signal | Signal name / Pin number |
| #1 | 1 | 42, 43, 44 (*) | 41 | OUT33 / 50 COM 33-48 (**)/ 12, 14, 16, 18 |
| | 2 | 52, 53, 54 (*) | 51 | OUT34 / 48 COM 33-48 (**)/ 12, 14, 16, 18 |
| #2 | 1 | 42, 43, 44 (*) | 41 | OUT35 / 46 COM 33-48 (**)/ 12, 14, 16, 18 |
| | 2 | 52, 53, 54 (*) | 51 | OUT36 / 44 COM 33-48 (**)/ 12, 14, 16, 18 |
| #3 | 1 | 42, 43, 44 (*) | 41 | OUT37 / 42 COM 33-48 (**)/ 12, 14, 16, 18 |
| | 2 | 52, 53, 54 (*) | 51 | OUT38 / 40 COM 33-48 (**)/ 12, 14, 16, 18 |
| #4 | 1 | 42, 43, 44 (*) | 41 | OUT39 / 38 COM 33-48 (**)/ 12, 14, 16, 18 |
| | 2 | 52, 53, 54 (*) | 51 | OUT40 / 36 COM 33-48 (**)/ 12, 14, 16, 18 |
| #5 | 1 | 42, 43, 44 (*) | 41 | OUT41 / 34 COM 33-48 (**)/ 12, 14, 16, 18 |
| | 2 | 52, 53, 54 (*) | 51 | OUT42 / 32 COM 33-48 (**)/ 12, 14, 16, 18 |
| #6 | 1 | 42, 43, 44 (*) | 41 | OUT43 / 30 COM 33-48 (**)/ 12, 14, 16, 18 |
| | 2 | 52, 53, 54 (*) | 51 | OUT44 / 28 COM 33-48 (**)/ 12, 14, 16, 18 |
| #7 | 1 | 42, 43, 44 (*) | 41 | OUT45 / 26 COM 33-48 (**)/ 12, 14, 16, 18 |
| | 2 | 52, 53, 54 (*) | 51 | OUT46 / 24 COM 33-48 (**)/ 12, 14, 16, 18 |
| #8 | 1 | 42, 43, 44 (*) | 41 | OUT47 / 22 COM 33-48 (**)/ 12, 14, 16, 18 |
| | 2 | 52, 53, 54 (*) | 51 | OUT48 / 20 COM 33-48 (**)/ 12, 14, 16, 18 |

Please note:

(*) Check 9203 manual for correct output signal wiring.(**) COM33-48 are shorted internally on the Backplane.

| 9203BxB I.S. Output terminals | | | | 50 pole DCS connection |
|----------------------------------|-----|-------------------|-------------------|---------------------------------|
| Unit | Ch. | Output (+) signal | Return (-) signal | Signal name / Pin number |
| #9 | 1 | 42, 43, 44 (*) | 41 | OUT49 / 49 |
| | | | | COM 49-64 (**) / 11, 13, 15, 17 |
| | 2 | 52, 53, 54 (*) | 51 | OUT50 / 47 |
| #10 | 1 | 42, 43, 44 (*) | 41 | COM 49-64 (**) / 11, 13, 15, 17 |
| | | | | OUT51 / 45 |
| | 2 | 52, 53, 54 (*) | 51 | OUT52 / 43 |
| #11 | 1 | 42, 43, 44 (*) | 41 | COM 49-64 (**) / 11, 13, 15, 17 |
| | | | | OUT53 / 41 |
| | 2 | 52, 53, 54 (*) | 51 | OUT54 / 39 |
| #12 | 1 | 42, 43, 44 (*) | 41 | COM 49-64 (**) / 11, 13, 15, 17 |
| | | | | OUT55 / 37 |
| | 2 | 52, 53, 54 (*) | 51 | OUT56 / 35 |
| #13 | 1 | 42, 43, 44 (*) | 41 | COM 49-64 (**) / 11, 13, 15, 17 |
| | | | | OUT57 / 33 |
| | 2 | 52, 53, 54 (*) | 51 | OUT55 / 31 |
| #14 | 1 | 42, 43, 44 (*) | 41 | COM 49-64 (**) / 11, 13, 15, 17 |
| | | | | OUT59 / 29 |
| | 2 | 52, 53, 54 (*) | 51 | OUT60 / 27 |
| #15 | 1 | 42, 43, 44 (*) | 41 | COM 49-64 (**) / 11, 13, 15, 17 |
| | | | | OUT61 / 25 |
| | 2 | 52, 53, 54 (*) | 51 | OUT62 / 23 |
| #16 | 1 | 42, 43, 44 (*) | 41 | COM 49-64 (**) / 11, 13, 15, 17 |
| | | | | OUT63 / 21 |
| | 2 | 52, 53, 54 (*) | 51 | OUT64 / 19 |
| | | | | COM 49-64 (**) / 11, 13, 15, 17 |

Please note:

(*) Check 9203 manual for correct output signal wiring.

(**) COM49-64 are shorted internally on the Backplane.

BACKPLANE TO YOKOGAWA PROSAFE I/O CARD WIRING

**SAI143 card wiring, 16 x AI,
PR 9106, 2 channels**

| 9106BxB I.S. Input terminals | | | | 40 pole DCS connection |
|---------------------------------|-----|------------------|------------------|--------------------------|
| Unit | Ch. | Z-w Tx mA-signal | Active mA-signal | Signal name / Pin number |
| #1 | 1 | 44 (+) | 41 (-) | IN1A / 38 |
| | | 43 (-) | 42 (+) | IN1B / 37 |
| | 2 | 54 (+) | 51 (-) | IN2A / 36 |
| | | 53 (-) | 52 (+) | IN2B / 35 |
| #2 | 1 | 44 (+) | 41 (-) | IN3A / 34 |
| | | 43 (-) | 42 (+) | IN3B / 33 |
| | 2 | 54 (+) | 51 (-) | IN4A / 32 |
| | | 53 (-) | 52 (+) | IN4B / 31 |
| #3 | 1 | 44 (+) | 41 (-) | IN5A / 30 |
| | | 43 (-) | 42 (+) | IN5B / 29 |
| | 2 | 54 (+) | 51 (-) | IN6A / 28 |
| | | 53 (-) | 52 (+) | IN6B / 27 |
| #4 | 1 | 44 (+) | 41 (-) | IN7A / 26 |
| | | 43 (-) | 42 (+) | IN7B / 25 |
| | 2 | 54 (+) | 51 (-) | IN8A / 24 |
| | | 53 (-) | 52 (+) | IN8B / 23 |
| #5 | 1 | 44 (+) | 41 (-) | IN9A / 22 |
| | | 43 (-) | 42 (+) | IN9B / 21 |
| | 2 | 54 (+) | 51 (-) | IN10A / 20 |
| | | 53 (-) | 52 (+) | IN10B / 19 |
| #6 | 1 | 44 (+) | 41 (-) | IN11A / 18 |
| | | 43 (-) | 42 (+) | IN11B / 17 |
| | 2 | 54 (+) | 51 (-) | IN12A / 16 |
| | | 53 (-) | 52 (+) | IN12B / 15 |
| #7 | 1 | 44 (+) | 41 (-) | IN13A / 14 |
| | | 43 (-) | 42 (+) | IN13B / 13 |
| | 2 | 54 (+) | 51 (-) | IN14A / 12 |
| | | 53 (-) | 52 (+) | IN14B / 11 |
| #8 | 1 | 44 (+) | 41 (-) | IN15A / 10 |
| | | 43 (-) | 42 (+) | IN15B / 09 |
| | 2 | 54 (+) | 51 (-) | IN16A / 08 |
| | | 53 (-) | 52 (+) | IN16B / 07 |

**SDV144 card wiring, 16 x DI,
PR 9202 2 channels**

| 9202BxB I.S. Input terminals | | | | 50 pole DCS connection |
|---------------------------------|-----|--------------|-----------------------|--------------------------|
| Unit | Ch. | NAMUR sensor | Contact signal | Signal name / Pin number |
| #1 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | DC1 / 48 |
| | | 42 (-) | 42 | IN1 / 47 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | DC2 / 46 |
| | | 52 (-) | 52 | IN2 / 45 |
| #2 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | DC3 / 44 |
| | | 42 (-) | 42 | IN3 / 43 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | DC4 / 42 |
| | | 52 (-) | 52 | IN4 / 41 |
| #3 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | DC5 / 40 |
| | | 42 (-) | 42 | IN5 / 39 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | DC6 / 38 |
| | | 52 (-) | 52 | IN6 / 37 |
| #4 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | DC7 / 36 |
| | | 42 (-) | 42 | IN7 / 35 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | DC8 / 34 |
| | | 52 (-) | 52 | IN8 / 33 |
| #5 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | DC9 / 32 |
| | | 42 (-) | 42 | IN9 / 31 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | DC10 / 30 |
| | | 52 (-) | 52 | IN10 / 29 |
| #6 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | DC11 / 28 |
| | | 42 (-) | 42 | IN11 / 27 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | DC12 / 26 |
| | | 52 (-) | 52 | IN12 / 25 |
| #7 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | DC13 / 24 |
| | | 42 (-) | 42 | IN13 / 23 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | DC14 / 22 |
| | | 52 (-) | 52 | IN14 / 21 |
| #8 | 1 | 44 (+) | 44 or 43 or 43/41 (*) | DC15 / 20 |
| | | 42 (-) | 42 | IN15 / 19 |
| | 2 | 54 (+) | 54 or 53 or 53/51 (*) | DC16 / 18 |
| | | 52 (-) | 52 | IN16 / 17 |

Please note:

(*) Check 9202 manual for correct contact input wiring

**SDV531 card wiring, 8 x DO,
PR 9203, 1 channel**

| 9203BxA I.S. Output terminals | | | | 50 pole DCS connection |
|----------------------------------|-----|-------------------|-------------------|--------------------------|
| Unit | Ch. | Output (+) signal | Return (-) signal | Signal name / Pin number |
| #1 | 1 | 42, 43, 44 (*) | 41 | OUT1 / 48 |
| | | | | COM 1 / 47 |
| | 2 | - | - | |
| #2 | 1 | 42, 43, 44 (*) | 41 | OUT2 / 46 |
| | | | | COM 2 / 45 |
| | 2 | - | - | |
| #3 | 1 | 42, 43, 44 (*) | 41 | OUT3 / 44 |
| | | | | COM 3 / 43 |
| | 2 | - | - | |
| #4 | 1 | 42, 43, 44 (*) | 41 | OUT4 / 42 |
| | | | | COM 4 / 41 |
| | 2 | - | - | |
| #5 | 1 | 42, 43, 44 (*) | 41 | OUT5 / 40 |
| | | | | COM 5 / 39 |
| | 2 | - | - | |
| #6 | 1 | 42, 43, 44 (*) | 41 | OUT6 / 38 |
| | | | | COM 6 / 37 |
| | 2 | - | - | |
| #7 | 1 | 42, 43, 44 (*) | 41 | OUT7 / 36 |
| | | | | COM 7 / 35 |
| | 2 | - | - | |
| #8 | 1 | 42, 43, 44 (*) | 41 | OUT8 / 34 |
| | | | | COM 8 / 33 |
| | 2 | - | - | |

Please note:

(*) Check 9203 manual for correct output signal wiring

**SDV541 card wiring, 16 x DO,
PR 9203 1 channel**

| 9203BxA I.S. Output terminals | | | | 50 pole DCS connection |
|----------------------------------|-----|-------------------|-------------------|--------------------------|
| Unit | Ch. | Output (+) signal | Return (-) signal | Signal name / Pin number |
| #1 | 1 | 42, 43, 44 (*) | 41 | OUT1 / 48 COM 1 / 47 |
| | 2 | - | - | |
| #2 | 1 | 42, 43, 44 (*) | 41 | OUT2 / 46 COM 2 / 45 |
| | 2 | - | - | |
| #3 | 1 | 42, 43, 44 (*) | 41 | OUT3 / 44 COM 3 / 43 |
| | 2 | - | - | |
| #4 | 1 | 42, 43, 44 (*) | 41 | OUT4 / 42 COM 4 / 41 |
| | 2 | - | - | |
| #5 | 1 | 42, 43, 44 (*) | 41 | OUT5 / 40 COM 5 / 39 |
| | 2 | - | - | |
| #6 | 1 | 42, 43, 44 (*) | 41 | OUT6 / 38 COM 6 / 37 |
| | 2 | - | - | |
| #7 | 1 | 42, 43, 44 (*) | 41 | OUT7 / 36 COM 7 / 35 |
| | 2 | - | - | |
| #8 | 1 | 42, 43, 44 (*) | 41 | OUT8 / 34 COM 8 / 33 |
| | 2 | - | - | |

Please note:

(*) Check 9203 manual for correct output signal wiring

| 9203BxA I.S. Output terminals | | | | 50 pole DCS connection |
|----------------------------------|-----|-------------------|-------------------|---------------------------|
| Unit | Ch. | Output (+) signal | Return (-) signal | Signal name / Pin number |
| #9 | 1 | 42, 43, 44 (*) | 41 | OUT9 / 32 COM 9 / 31 |
| | 2 | - | - | |
| #10 | 1 | 42, 43, 44 (*) | 41 | OUT10 / 30 COM 10 / 29 |
| | 2 | - | - | |
| #11 | 1 | 42, 43, 44 (*) | 41 | OUT11 / 28 COM 11 / 27 |
| | 2 | - | - | |
| #12 | 1 | 42, 43, 44 (*) | 41 | OUT12 / 26 COM 12 / 25 |
| | 2 | - | - | |
| #13 | 1 | 42, 43, 44 (*) | 41 | OUT13 / 24 COM 13 / 23 |
| | 2 | - | - | |
| #14 | 1 | 42, 43, 44 (*) | 41 | OUT14 / 22 COM 14 / 21 |
| | 2 | - | - | |
| #15 | 1 | 42, 43, 44 (*) | 41 | OUT15 / 20 COM 15 / 19 |
| | 2 | - | - | |
| #16 | 1 | 42, 43, 44 (*) | 41 | OUT16 / 18 COM 16 / 17 |
| | 2 | - | - | |

Please note:

(*) Check 9203 manual for correct output signal wiring

APPENDIX

**BACKPLANE TO I/O CARD
CABLE REFERENCES**

&

**9106B, 9107B, 9113B, 9202B, 9203B
WIRING CONNECTION**

SYSTEM CABLES FOR YOKOGAWA BACKPLANES

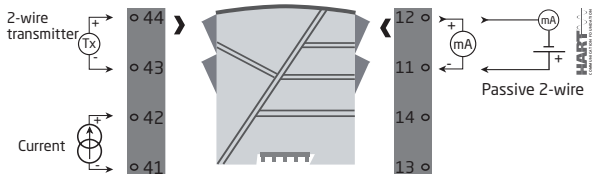
Description

- Shielded round cable, assembled with two 40 or 50 pole MIL connectors, KS type or equivalent.
- Cable length: Variable.
- The following I/O cards can be connected:
AAI141, AAI841, ADV151, ADV161, ADV551, ADV561.
SAI143, SDV144, SDV531, SDV541.

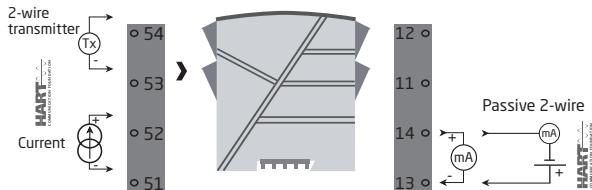
9106B HART® TRANSPARENT REPEATER



Channel 1



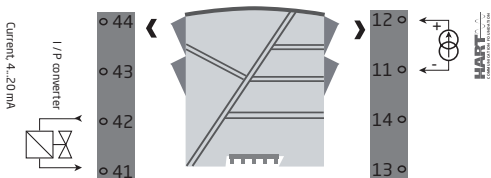
Channel 2



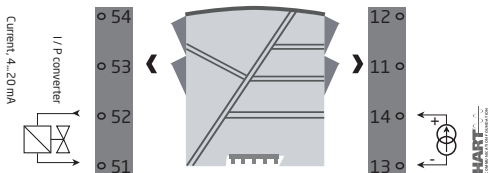
9107B HART® TRANSPARENT DRIVER



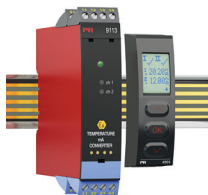
Channel 1



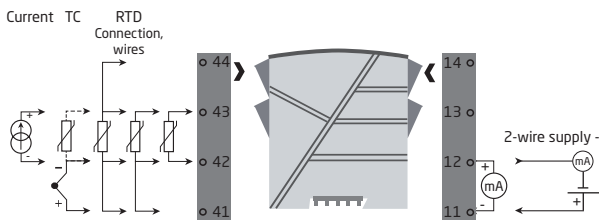
Channel 2



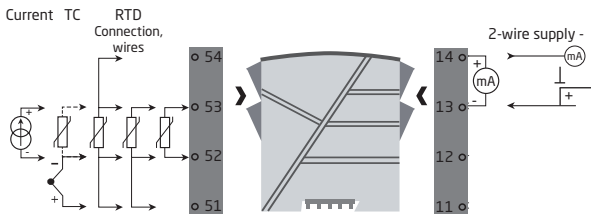
9113B TEMPERATURE / mA CONVERTER



Channel 1:



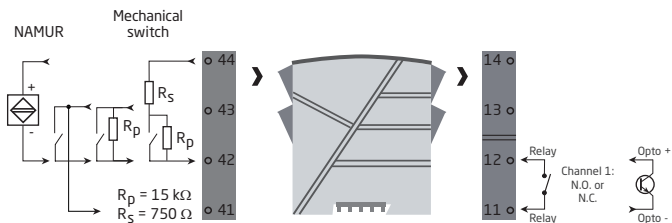
Channel 2:



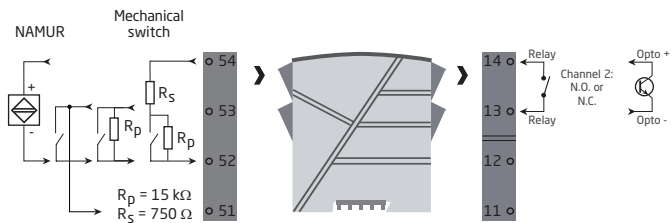
9202B PULSE ISOLATOR



Channel 1:



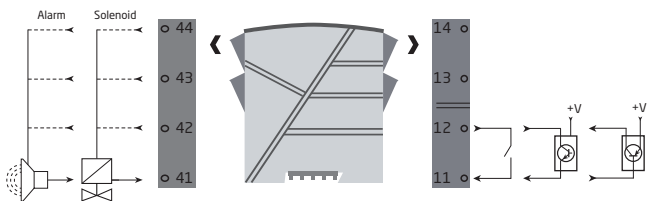
Channel 2:



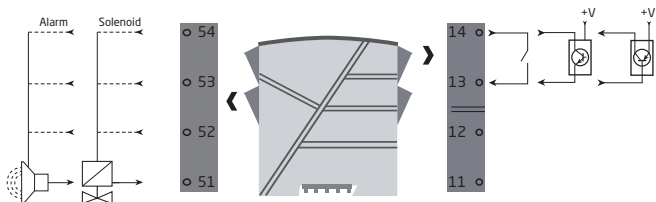
9203B SOLENOID / ALARM DRIVER



Channel 1



Channel 2





Displays Programmable displays with a wide selection of inputs and outputs for display of temperature, volume and weight, etc. Feature linearisation, scaling, and difference measurement functions for programming via PReset software.



I.S. interfaces Interfaces for analogue and digital signals as well as HART® signals between sensors / I/P converters / frequency signals and control systems in Ex zone 0, 1 & 2 and for some devices in zone 20, 21 & 22.



Isolation Galvanic isolators for analogue and digital signals as well as HART® signals. A wide product range with both loop-powered and universal isolators featuring linearisation, inversion, and scaling of output signals.






Temperature A wide selection of transmitters for DIN form B mounting and DIN rail devices with analogue and digital bus communication ranging from application-specific to universal transmitters.






Multifunctional PC or front programmable devices with universal options for input, output and supply. This range offers a number of advanced features such as process calibration, linearisation and auto-diagnosis.









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QUALITY SYSTEM AND ENVIRONMENTAL MANAGEMENT SYSTEM
DS/EN ISO 9001
DS/EN ISO 14001

