IND1100000 Module

IND110 Module in Type 7/9 Enclosure

Stainless Steel Enclosure Accessory

IND110

Load Cell Signal Converter

Approvals: UL, cUL, CE marked (UL file E139501 for module, E152336 for Type 7/9 enclosure)

Standard Features:

- Converts analog strain gauge load cell signal to 4 to 20mA analog process signal, commonly used with a PLC
- Provides 10 volts load cell excitation, powering up to four 350 ohm load cells
- Digital filtering across entire weight range minimizes affects of vibration on weighing
- Low-level and high-level discrete outputs (one each), open-collector type, 5 to 25 VDC
- Software calibration using DIP switches to enable setup and push buttons for adjustments on front panel
- Error monitoring of loss of scale data
- DIN rail mountable module (IND1100000)
- Type 7/9 enclosure (IND1100001)
- Can be used with intrinsic safety barriers ISB15 or ISB15X
- Stainless steel enclosure 64053670 fits one power supply 64053820 and one IND110 on a DIN rail
- Requires an isolated, Class 2 rated, 24 VDC, (min 300mA) Power Supply (available separately)

Ordering Information

IND110 Signal Converter (external power supply required)

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
IND1100000	71208076	Load Cell Signal Converter, DIN rail mount (2.9"H x 3.9"W x 2.2"D)	2.2 lb	$528
IND1100006	64055107	IND1100000 Load Cell Signal Converter - Must be purchased in multiples of	2.2 lb	$451
IND1100001	64053672	Load Cell Signal Converter IND1100000 DIN rail module mounted in Type 7/9 Enclosure (7.8"H x 7.0"W x 6.8"D) rated for Class I, Div 1, Groups C-D; Class II, Div 1, Groups E-G. Add ISB15 or ISB15X intrinsic safety barrier	22 lb	$1,172

IND110 Signal Converter Options

64053670	64053670	Type 4X/ IP65 stainless steel enclosure (6.3"H x 7.0"W x 2.8"D), wall mount, fits one power supply 64053820 and one IND110 on a DIN rail	5.5 lb	$344
64053820	64053820	DIN mount power supply, 85 - 264 VAC, 24 VDC at 1.0 amps (no power		$195
17297600A		Power supply in Type 7/9 enclosure (7.8"H x 7.0"W x 6.8"D) with DIN rail. Rated for Class I, Div 1, Groups C-D; Class II, Div 1, Groups E-G (no power		$739

A100

Analog Output Module

A1000000 Module

A100 Module in Type 7/9 Enclosure

Stainless Steel Enclosure Accessory

Approvals: UL, cUL, CE marked (UL file E139501 for module, E152336 for Type 7/9 enclosure)

Standard Features:

- Converts METTLER TOLEDO serial weight data to a standard 4-20 mA analog output process signal, commonly used with a PLC
- Accepts METTLER TOLEDO Continuous or Standard Interface Command Set (SICS) level 0, send and receive
- Supports RS-232, RS-485, 20mA current loop, and fiber optic inputs*
- Low-level and high-level discrete outputs (one each), open-collector type, 5 to 25 VDC
- Simple and fast software calibration using DIP switches to enable setup and push buttons for adjustments on front panel
- Error monitoring of loss of communication, under zero, and over capacity
- DIN rail mountable module (A1000000)
- Type 7/9 enclosure (A1000001)
- Stainless steel enclosure 64053670 fits one power supply 64053820 and one A100 on a DIN rail
- Requires an isolated Class 2 rated, 24 VDC Power Supply (available separately)
- A100 power draws 300mA

Ordering Information

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
A100 Analog Output Module (external power supply required)				
A1000000	71208075	Analog Output Module, DIN Rail Mount (2.9"H x 3.9"W x 2.2"D)	2.2 lb	$627
A1000001	64053312	Analog Output Module A100000 in Type 7/9 Enclosure (7.8"H x 7.0"W x 6.8"D)	22 lb	$1,260
A100 Analog Output Module Options				
64053670	64053670	Type 4X/ IP65 stainless steel enclosure (6.3"H x 7.0"W x 2.8"D), wall mount, fits one power supply 64053820 and one A100 on a DIN rail	5.5 lb	$344
64053820	64053820	DIN mount power supply, 85 - 264 VAC, 24 VDC at 1.0 amps (no power		$195
17297600A		Power supply in Type 7/9 enclosure (7.8"H x 7.0"W x 6.8"D) with DIN rail. Rated for Class I, Div 1, Groups C-D; Class II, Div 1, Groups E-G (no power		$739

* A100 module has fiber optic interface hardware on main PCB and does not require the Dual Channel Receiver when used with 8525, PUMA, or IND560x terminals.

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ARM100

ARM100

Digital Input/Output Module

Approvals:

- cULus, CE

Standard Features:

- N35 DIN rail mount
- Requires 24VDC 1A, Class 2 power supply (available separately)
- ARM100 power draws 100mA
- Compact Footprint
- I/O Assignment via the IND560 or IND780 Keypad
- DIN rail mounting
- Terminal Strip Connectors
- UL Approval
- Output safety interlocks if no communication exists
- Global approvals
- Optional Harsh enclosure
- LED indicators
  - Power: ON with external power applied
  - Run: Flashing ON when internal diagnostics test OK
  - Data: ON when communicating with the termianl
- Designed for IND560 and IND780 terminal
- Serial Data Input
  - Multi-drop RS-485 interface
  - Module addressable from 1-15
  - 57,800 baud, 8 data bits, even parity, 1 stop bit
- Discrete Inputs
  - 4 optically isolated solid state inputs
  - Input voltage range: 5-24 VDC (30 VDC at 40 mA maximum)
  - 4 LEDs indicate input status
  - External voltage source and ground required
- Discrete Outputs
  - 6 normally open, dry contact relays
  - Contact rating: 250 VAC or 30 VDC at 1 A maximum
  - Total current not to exceed 3 A
  - 6 LEDs indicate output status
  - External voltage source required

Options:

- Type 4X stainless steel wall mount enclosure
- 24VDC 1A, Class 2 power supply

Ordering Information

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
ARM100 Digital Input/Output Module				
71209352	71209352	ARM100 Digital Input/Output module		$490
ARM100 Options				
64053670	64053670	Type 4X/IP65 stainless steel enclosure (6.3"H x 7.0"W x 2.8"D), wall mount, fits one power supply 64053820 and one ARM100 on a DIN rail	5.5 lb	$344
64053820	64053820	DIN mount power supply, 85 - 264 VAC, 24 VDC at 1.0 amps (no power		$195

ARM200

IND780 Vehicle Control Interface

Produced in a facility that is ISO 9001 certified

Standard Features:

- Compatible with IND780drive and other IND780 vehicle applications
- Requires 115/240 VAC 60 Hz power source
- 12-280 VAC 5A output module rating
- 2KV serial port isolation
- Wall mount Type 4 enclosure
- Dimensions: 11" x 14" x 7"

Options:

- Manual operators for traffic light control/LED status lights
- Loop detector channels
- Serial port isolators
- Inputs
- Additional outputs

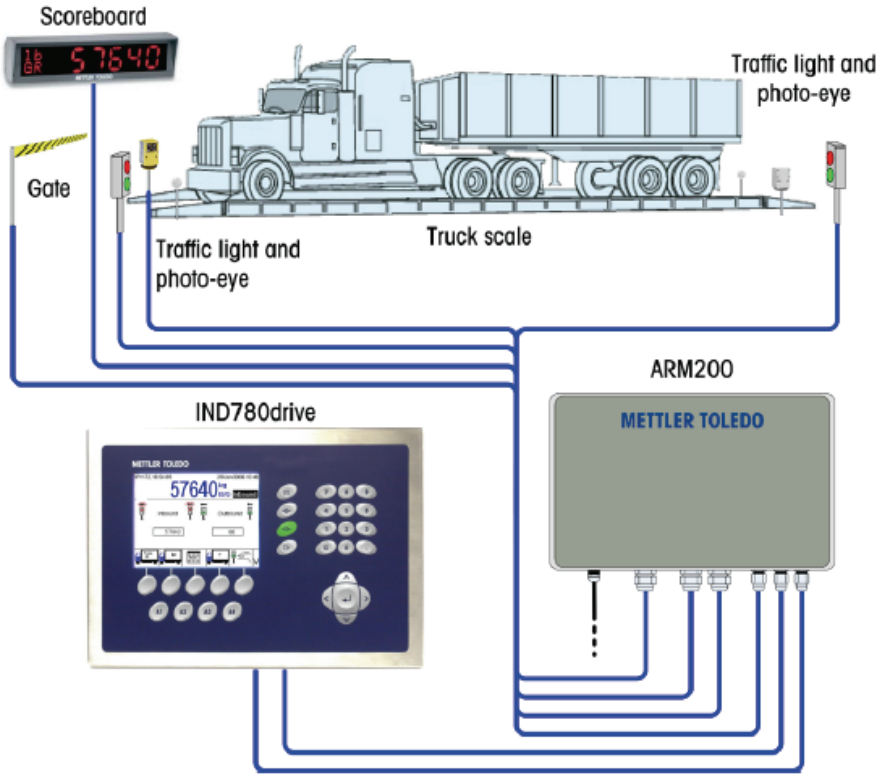
Note:

- Any IND780 application that utilizes the ARM200 requires a Discrete I/O card (option B) in the IND780.

Ordering Information

ARM200 Digital Input/Output Module

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
ARM2020000	64065632	ARM200 traffic light control		$1,711
ARM2020010	64069107	ARM200 traffic light control with manual switches		$2,222



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RAAD BOX

Remote Addressable A/D Box

Approvals:

- NTEP Class III/IIIL, 10,000d, COC #00-052; European approval TC5815, Class III 6000d, Class IIII 1000d

Environmental Protection:

- 304 stainless steel, TYPE 4X, IP65

Standard Features:

- Converts conventional analog load cells into METTLER TOLEDO DigiTOL® cells using the latest MTX technology
- Full scale resolution or A/D 500,000 counts per cell
- 18 Hz update rate
- 4 MTX A/D PCBs in a rust-free, TYPE 4X, IP 65 junction box with terminal strips for field wiring
- Up to 6 RAAD boxes may be daisy-chained
- Compatible with conventional 2mV/V or 3mV/V analog load cells
- Enables individual diagnostics of each analog load cell
- Interfaces to METTLER TOLEDO IND135, IND310, and IND780 terminals.

Notes

- POWERCELL card MUST be installed in IND310 or IND780 when using RAAD box.
- When more than four 350 ohm loadcells or more than eight 750 ohm loadcells are connected to RAAD boxes a TA100590 auxillary power supply is required.

Ordering Information

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
RAAD Box				
09041013000	64010790	RAAD Box, 4-channel, Stainless Steel enclosure	6.6 lb	$1,480
RAAD Box Accessories				
TA100590	64083049	External Power Supply (requires Power Cord)	5.0 lb	$508
10386700A	68002184	Power Cord		$19

8624

Remote Display

Approvals - 9325 and 9323:

- UL/cUL

Environmental Protection:

- Wall mount enclosure - TYPE 4X (IP66)
- Explosion proof enclosure - TYPE 7/9
- Panel enclosure - TYPE 1

Standard Features:

- Six 0.8" LED digits, glarefree and high contrast with wide viewing angles
- Panel, wall, or hazardous enclosures
- Two output modes
- Legends: G, T, N, lb, kg, Total

Ordering Information

8624 Remote Display

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
86240011000	64007300	Stainless steel enclosure, wall-mount, TYPE 4X (IP66)	8.5 lb	$1,315
86240031000	64007297	Explosion-proof enclosure, TYPE 7/9. Suitable for Class I and II, Applicable Groups C,D,E,F & G. NEC temperature rating T-6	15 lb	$2,437
86240021000	64007298	Panel-mount enclosure, TYPE 1 (power cord not included)	5 lb	$1,194
09610077000	64007273	Fiber optic (optional) send/receive kit (Includes FO-board, mounting hardware and internal harness)		$270
Country-specific Power Cords (must be ordered separately) for Panel-mount Model 86240021000				
09640079000	64007287	North America, 115 VAC, 6 amp. 18 GA, 3-wire, 7'6" long		$37
09640080000	64007286	Europe (Schuko), 10 amp, 220/240 VAC, 3-wire, 2.5m long		$37
09640081000	64007285	Australia/China, 10 amp, 220/240 VAC, 3-wire, 2.5m long		$37

NOTES:

1. The 8624 can be used wiith indicators that have a METTLER TOLEDO continuous serial output
2. Weight only is displayed (tare, net, or gross)
3. Maximum cable length to 8624 using 20 mA current loop or RS422-C is 2000 ft, including cable length to printer
4. Power: Includes a switching power supply (90-260 VAC, 50/60 Hz)
5. Input: 4800/9600 Baud ASCII, continuous format (20 mA current loop, RS232-C, RS422, or fiber optic input
6. Output: The printer output is one line or three lines G-T Net or Net Only. Time and Date or ID from the indicator CANNOT be printed.
   Printer output can be 20 mA current loop or RS422.
   Continuous output feed-through can also be selected: it will be the same as received from the digital indicator, and outputted at the same baud rate (20 mA current loop, RS232-C, RS422 or fiber optic

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ADI Scoreboard

Approvals:
- UL/cUL

Environmental Protection:
- Harsh environment enclosure, Type 4 (IP56)

Standard Features:
- Six (100 mm) LED digits
- Super bright display with dual intensity setting
- Integral sun shade
- LB/KG designation
- GR/NT designation
- Communication Protocols: METTLER TOLEDO continuous, Multi Drop
- Input: 20 mA current loop, RS232, and RS422 (Compatible with Mettler Toledo RS485 Multi-Drop)
- Universal bracket mounting options

Options:
- Wireless connectivity
- Integral red/green traffic light for 4" and 6" scoreboards

Ordering Information

Scoreboards

Order Number	SAP Order Number	Description	Shipping Weight (lb)	Suggested List Price (CDN$)
ADI210	61042037	Scoreboard with 2" LED display		$1,199
ADI310	61038718	Scoreboard with 4" LED display		$2,107
ADI410	61040386	Scoreboard with 6" LED display		$2,783
ADI215	61043160	Scoreboard with 2" LED display and wireless option[1]		$2,288
ADI315	61041417	Scoreboard with 4" LED display and wireless option[1]		$3,119
ADI415	61041418	Scoreboard with 6" LED display and wireless option[1]		$3,724
ADI320	61040223	Scoreboard with 4" LED display and red/green traffic light option		$2,860
ADI420	61040387	Scoreboard with 6" LED display and red/green traffic light option		$3,548

[1]Includes serial interface transmitter and power supply to connect to scale terminal.

Notes

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