

DirectLine[®] Sensor Module

Model Selection Guide

- Unique product architecture which provides ease of use, lower installation cost, easy calibration and maintenance
- Provides on-line diagnostics to minimize trouble-shooting
- Electrodes & Cells must be specified separately. For electrodes and available mounting see MSG DL1000 for Durafet pH, DL2000 for glass pH, DL3000 for ORP, DL4000 for conductivity and DL5000 for dissolved oxygen.
- See Product Specs for detail:

DL421/422 70-82-03-04; DL423 70-82-03-47; DL424/425 70-82-03-48

Instructions

- Select the desired key number. The arrow to the right marks the selection available.
- Make the desired selections from Tables I through IV using the column below the proper arrow. A dot (•) denotes availability.

Key Number I II III IV
 [- - - -] - [-] - [-] - [-] - [- - - -]



Key Number - DirectLine[®] Sensor Electronics Module

(Specify electrodes/cells/probes separately)

pH	For use with Durafet II, Glass & HPW7000 pH electrodes
ORP	For use with ORP electrode
Conductivity	For use with Contacting Conductivity Cells
DO - PPM	For use with Dissolved Oxygen ppm Probes
DO - PPB	For use with Dissolved Oxygen ppb Probes

Selection	Availability					Stocking P/N
DL421	↓					51452682-501
DL422		↓				51452682-502
DL423			↓			51452682-503
DL424				↓		51452682-504
DL425					↓	51452682-505

TABLE I - OUTPUT CABLE

Output Cable for Integral or Remote Mounting	None (replacement module or customer supplied output cable)- Note 1 Cordset - 6m (19.7 ft.) - includes connector and cable - Note 2 Field Wiring Connector only - customer supplies cable only - Note 2
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D	•	•	•	•	•	N/A
E	•	•	•	•	•	51452683-501
F	•	•	•	•	•	51452684-501

TABLE II - SENSOR CABLE/REMOTE CONNECTOR (between electronic module and electrode, sensor or probe)

Integral Mounting	No cable or connector required
Remote Mounting Cable - Durafet Only	6,096m (20 ft.) of sensor cable - Durafet II Remote Mtg w/PWB connector- Note 4 6,096m (20 ft.) of sensor cable-Durafet III Remote Mtg w/Vario Pin connector- Note 3 15,24m (50 ft.) of sensor cable - Durafet II Remote Mtg w/PWB connector- Note 4 15,24m (50 ft.) of sensor cable - Durafet III Remote Mtg w/Vario Pin connector- Note 3
Remote Mounting Connector (Cable is supplied with sensor or probe)	Remote Mounting Connector - Glass pH Remote Mounting Connector - Meredian II ORP Remote Mounting Connector - HPW7000 Remote Mounting Connector - Conductivity Remote Mounting Connector - Dissolved Oxygen

0	d	d	d	d	d	N/A
1	e					51500270-501
7	e					51453225-501
2	e					51500270-502
8	e					51453225-502
3	e					51500768-501
9		e				51500768-502
4	e					51500768-503
5			e			51500768-504
6				e	e	51500768-505

TABLE III - REMOTE MOUNTING OPTIONS

Mounting Kit for Remote Mounting	None Integral unit - mounting not required 2" (5,08 cm) Pipe mtg. bracket, wall mtg. & DIN Rail clip
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A	•	•	•	•	•	N/A
B	•	•	•	•	•	51452655-501

TABLE IV - OPTIONS

Tagging	None SS Customer ID Tag - 3 lines w/22 characters/line
Certificates	None Calibration & Conformance

00 __	•	•	•	•	•	N/A
SS __	•	•	•	•	•	N/A
__ 00	•	•	•	•	•	N/A
__ CC	•	•	•	•	•	N/A

Notes:

- 1 Customers may procure their own output cordsets from the vendors listed below.
- 2 Customers may make their own 4-20 mA output cordset using a 2-wire twisted shielded pair, and M12 field wiring connector procured from one of the vendors listed below. Use only UV rated outdoor cable to maintain NEMA 4 rating.

	Phoenix Contact	Turck
Cordset	SAC-3P-5.0-PUR/M12FSSH Stainless	RKV4T-6/S618
M12 Field Wiring Connector	SACC-M12FS-4CON-PG7	B8141-0
Cable	2-wire twisted shielded pair	

- 3 Durafet III cables with Vario Pin connector require Durafet III electrode with Vario Pin connector - Do not select when selection on MSG 51-52-16-72 (DL1000), TABLE I is "742", "771", "772", or "773"
- 4 Durafet II cables with PC Board connector require Durafet II electrodes - Do not select when selection on MSG 51-52-16-72 (DL1000), TABLE I is "774" or "775"

RESTRICTIONS

Restriction Letters	Available Only With		Not Available With	
	Table	Selection	Table	Selection
d	III	A		
e	III	B		

ORDERING INSTRUCTIONS:

1. Part numbers are provided to facilitate Distributor Stock.
2. Orders may be placed either by model selection or by part number.
3. Part numbers are shown within the model selection tables to assist with compatibility information.
4. Orders placed by model selection are systematically protected against incompatibility.
5. Compatibility assessment is the responsibility of the purchaser for orders placed by part number.
6. Items labeled as N/A are not available via the stocking program and must be ordered by model selection.

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**Accessories and
 Replacement Parts**

Description	Part Number
O-Ring for Integral Probe/Electrode or Remote Electrode Mounting Connector	31086221-501
Stainless Steel Locking Screw for Integral Electrode or Remote Electrode	51452706-501
4-20 mA output cordset - 6m (19.7 ft.) - includes connector and cable	51452683-501
M12 Field Wiring Connector	51452684-501