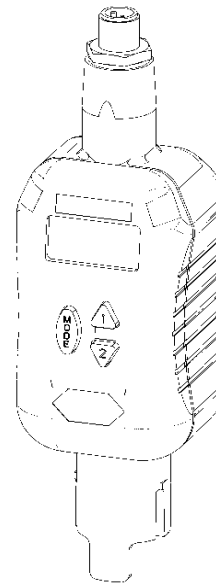# Honeywell

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)

		Selection	Availability				Stocking P/N
pH	For use with Durafet II, Glass & HPW7000 pH electrodes	DL421	↓				51452682-501
ORP	For use with ORP electrode	DL422		↓			51452682-502
Conductivity	For use with Contacting Conductivity Cells	DL423			↓		51452682-503
DO - PPM	For use with Dissolved Oxygen ppm Probes	DL424				↓	51452682-504

TABLE I - OUTPUT CABLE

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

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

		Selection					Stocking P/N
Integral Mounting	No cable or connector required	0	d	d	d	d	N/A
Remote Mounting	6,096m (20 ft.) of sensor cable - Durafet II Remote Mtg w/PWB connector-*Note 4*	1	e				51500270-501
Cable -	6,096m (20 ft.) of sensor cable-Durafet III Remote Mtg w/Vario Pin connector-*Note 3*	7	e				51453225-501
Durafet Only	15,24m (50 ft.) of sensor cable - Durafet II Remote Mtg w/PWB connector-*Note 4*	2	e				51500270-502
	15,24m (50 ft.) of sensor cable - Durafet III Remote Mtg w/Vario Pin connector-*Note 3*	8	e				51453225-502
Remote Mounting	Remote Mounting Connector - Glass pH	3	e				51500768-501
Connector (Cable	Remote Mounting Connector - Meredian II ORP	9		e			51500768-502
is supplied with	Remote Mounting Connector - HPW7000	4	e				51500768-503
sensor or probe)	Remote Mounting Connector - Conductivity	5			e		51500768-504
	Remote Mounting Connector - Dissolved Oxygen	6				e	51500768-505

TABLE III - REMOTE MOUNTING OPTIONS

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

TABLE IV - OPTIONS

		Selection					Stocking P/N
Tagging	None	00 _ _	•	•	•	•	N/A
	SS Customer ID Tag - 3 lines w/22 characters/line	SS _ _	•	•	•	•	N/A
Certificates	None	_ _ 00	•	•	•	•	N/A
	Calibration & Conformance	_ _ 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.

DirectLine®
Sensor Module

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