



LCS™ Point Level Control

506-6000 Series



Key Benefits

Ignores coatings on sensor

Electronics with proven Cote-Shield™ circuitry ignores coatings or buildups on the sensing element.

Limits fugitive emission liability

Single vessel penetration limits fugitive emission liability and assures ease of installation.

Remote or integral transmitter mounting

Transmitter can be mounted integrally to electronics or remotely up to 150 feet away.

Sensing elements available for virtually every application

Drexelbrook has already designed, manufactured, and installed sensing elements for your application. From cryogenics to molten polymers, vacuum to 5000 psi. Options are available to meet virtually every need.

TM: Tradename of Drexelbrook Engineering Co.

Line powered point level measurement for all liquids, slurries, granulars, and interfaces has been proven in thousands of applications.

Accurate and reliable even with heavy coatings...

Special heavy duty Cote-Shield™ circuitry allows the Drexelbrook LCS series point level control trouble free operation in spite of coatings on the sensing element.

No moving parts eliminates routine maintenance...

The LCS series point level control has no moving parts to wear out or maintain... Install it, and forget it!

Optional “confidence check” insures control function...

Available with optional Verify™ confidence check allowing control function to be checked prior to filling vessel or raising material level.

DPDT relay contacts for control...

The LCS series offers DPDT relay contacts for operating alarms, annunciators, pumps, or valves.

Most Popular Systems

Application	Model # (Sensing Element)	Temperature & Pressure	Std. Mtg.	O.D. & S.E. Material	Max. Rec. I.L.	Std. Cote-Shield	Sensing Element Drawing
Liquid, light slurry, or granular	506-6000-55 (700-1202-1)	200 psi @ 450°F 14 BAR @ 232°C	3/4" NPT	3/8" O.D. SS & T1*	6 ft. (1.8m)	3 1/2" or 10"	700-1202-1-CD
Liquid, light slurry at higher pressure	506-6000-5 (700-201-5)	200 psi @ 450°F 14 BAR @ 232°C	3/4" NPT	1/4" O.D. SS & TFE	6 ft. (1.8m)	4" or 10"	700-201-1-CD
Liquid or granular	506-6000-22 (700-202-43)	200 psi @ 450°F 14 BAR @ 232°C	1" NPT	1/2" O.D. SS & TFE	10 ft. (3m)	4" or 10"	700-202-43-CD
High temperatures (SS and ceramic S.E.)	506-6000-10 (700-204-2)	0 psi @ 1500°F 0 BAR @ 816°C	1 1/4" NPT	1/2" O.D. SS & ceramic	4 ft. (1.2m)	4 1/2" or 10"	700-204-2-CD
SS and silicone rubber sensing element	506-6000-15 (700-202-19)	20 psi @ 450°F 1 BAR @ 232°C	3/4" NPT	3/8" O.D./ SS & silicone rubber	6 ft. (1.8m)	4 1/2" or 10"	700-201-1-CD
Flush control - material in chutes	506-6000-20 (700-207-1)	1 psi @ 180°F 0 BAR @ 82°C	10"x10" Cutout	12" x 12" / SS & polyurethane	-	-	700-207-1-CD
Flexible cable S.E. (2900# test)	506-6000-30 (700-205-5)	1 psi @ 180°F 0 BAR @ 82°C	3/4" NPT	1/4" O.D. SS & TFE	50 ft. (15m)	2"	700-201-1-CD

*Note: "T1" is a high temperature thermoplastic which is similar to TFE, but with better abrasion resistance.

Specifications

1. Power Requirement

406-6000 Series: 120 ± 25 Vac 50/60 Hz
1 watt
406-6300 Series: 240 ± 50 Vac 50/60 Hz
406-6100 Series: 12-30 Vdc, 1 watt

2. Level Output

DPDT Relay

3. Contact Rating

120 Vac; 5A Non-Inductive, 3A Inductive
240 Vac; 5A Non-Inductive, 2A Inductive
24 Vdc; 5A Non-Inductive, 1A for Inductance up to 300 mH

4. Operating Temperature

-40 to 140°F

5. Temperature Effect (Operating Point)

.10 pF/30°F standard (406-6000)
.01 pF/30°F optional (406-6020)

6. Sensitivity

0.1 pF standard (406-6000)
0.01 pF optional (406-6020)

7. Operating Point Range

0-100 pF (406-6000)
0-20 pF (406-6020)

8. RFI Protection (Built-in)

Less than 2 pF shift in operating point for unit in explosionproof housing from 5W field @ 27, 150, or 450 MHz at a distance of 5 ft from exposed cable, or power line.

9. Spark Protection

Sensing element and power line withstand 10A (standard), 100A (optional)

10. Fail-Safe

Switchable either Low-Level Fail-Safe (LLFS) or High-Level Fail-Safe (HLFS)

11. Connection Cable

3-terminal coaxial up to 150ft; to 160°F std, to 450°F optional.

12. Standard housings meet the following classifications:

NEMA 1 General-purpose
NEMA 3 Weather-resistant
NEMA 4 Water-tight
NEMA 12 Dust-tight
NEMA 13 Dust-tight
Explosionproof for Class I, Groups A, B, C, D, and Class II, Groups E, F, and G.

13. Other options include:

Time delay (0-90 sec.)
Ruggedized electronic unit for severe vibration
Drexelcote™ corrosion-resistant housing
Adjustable differential

14. Approvals:

CSA & FM
See 420-1-4 for details





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