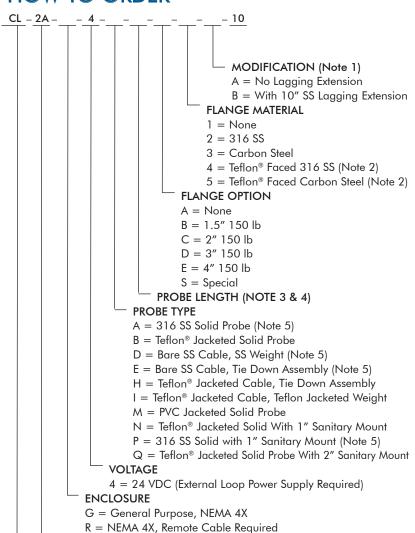




DESCRIPTION Cap-Level® IIA is designed for level monitoring and control. The 4-20mA output provides a selectable dampening function to stabilize readings where severe agitation is present. Simple zero and span adjustment make calibration easy. The relay logic circuitry offers the flexibility to control multiple pumps, conveyors, and alarms. Each relay can be set to turn your equipment on and off at any selected point on the probe, without any external latching devices. Failsafe selection gives the security of fault indication and/or conveyor stop if power is lost. The probe configurations and materials offered allow you to custom fit Cap-Level® IIA to your application. Designs such as the type "E" and "H" tie-down, allow use in tall silos and include a unique cable tightening adjustment.

HOW TO ORDER



FEATURES AND BENEFITS

- Two-wire transmitter (24 VDC)
- Senses practically any liquid
- Electronic options
- Rigid or flexible probes
- FM approved for hazardous areas

Continuous 4-20mA

Standard Communication

Output Dampening - Standard

Stabilizes readings where severe agitation is present

Teflon, PVC, and 316 SS Probes and **NPT** or Flange Mounting

Options for a wide range of applications

Continuous Process Management

Uninterrupted level measurement

All models intrinsically safe when used with approved barriers.

Note 1. Lagging assembly is used for high temperature applications.

Note 2. All models are intrinsically safe when used with approved barriers.

Maximum standard length for solid probes is 14' (4.2m). For probes exceeding this Note 3.

length consult factory.

Maximum standard length for cable probes is 100' (30.5m). For probes exceeding this Note 4. lenath contact factory.

Note 5. For dry or non-conductive materials only.

2A = 2 Wire Analog (4-20mA)

SERIES-IIA

CAP-LEVEL® IIA

SPECIFICATIONS

FUNCTIONAL

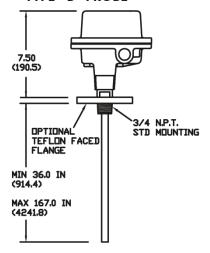
FUNCTIONAL			
Power	15-32 VDC (27 VDC max. for LS operation)		
Output	4-20mA		
Drive Capability	450 ohms @ 24 VDC (varies with voltage)		
Calibration	Zero and span with frequency selection		
Capacitance Range	0 pF to 4000 pF nominal		
Repeatability	±1% of span (constant dielectric)		
Sensing System	High frequency capacitance with digital comparator		
PHYSICAL			
Enclosure	NEMA 4X, aluminum with corrosion resistant polyester coating		
Enclosure Temperature	-40° F to 120° F (-40° C to 49° C) (lagging assembly for higher temperature)		
Length	As specified - Types A, B, M, N, P, Q: 167" (4175mm) maximum; Types D, E, H, I: 1200" (36000mm) maximum		
APPROVALS	Hazardous Location: FM, Intrinsically safe, Class I, II, III, Div I, Groups C, D, E, F & G Type 4, T4A		

PROBE APPLICATION

Mount Standard	Material	Pressure (Max)	Temp. (Max)
3/4" NPT	316 SS**	50 PSI (3.51 kg/cm²)	250° F (121° C)
3/4" NPT	Teflon®/SS	50 PSI (3.51 kg/cm²)	250° F (121° C)
11/4" NPT	316 SS**	Atmospheric	250° F (121° C)
11/4" NPT	316 SS**	Atmospheric	250° F (121° C)
11/4" NPT	Teflon®/SS	Atmospheric	250° F (121° C)
11/4" NPT	Teflon®/SS	50 PSI (3.51 kg/cm²)	250° F (121° C)
3/4" NPT	PVC/SS	50 PSI (3.51 kg/cm²)	140° F (60° C)
1" Sanitary	Teflon®/SS	50 PSI (3.51 kg/cm²)	250° F (121° C)
1" Sanitary	316 SS	50 PSI (3.51 kg/cm²)	250° F (121° C)
2" Sanitary	Teflon®/SS	50 PSI (3.51 kg/cm²)	250° F (121° C)
	\$\text{Standard} 3/4" NPT 3/4" NPT 11/4" NPT 11/4" NPT 11/4" NPT 11/4" NPT 11/4" NPT 11/4" NPT 2/4" NPT 2/4" Sanitary 2" Sanitary	Standard 3/4" NPT 316 SS** 3/4" NPT Teflon®/SS 11/4" NPT 316 SS** 11/4" NPT Teflon®/SS 11/4" NPT Teflon®/SS 11/4" NPT Teflon®/SS 11/4" NPT PVC/SS 1" Sanitary Teflon®/SS 1" Sanitary 316 SS 2" Sanitary Teflon®/SS	Standard (Max) 3/4" NPT 316 SS** 50 PSI (3.51 kg/cm²) 3/4" NPT Teflon®/SS 50 PSI (3.51 kg/cm²) 11/4" NPT 316 SS** Atmospheric 11/4" NPT 316 SS** Atmospheric 11/4" NPT Teflon®/SS Atmospheric 11/4" NPT Teflon®/SS 50 PSI (3.51 kg/cm²) 3/4" NPT PVC/SS 50 PSI (3.51 kg/cm²) 1" Sanitary Teflon®/SS 50 PSI (3.51 kg/cm²) 1" Sanitary 316 SS 50 PSI (3.51 kg/cm²) 2" Sanitary Teflon®/SS 50 PSI (3.51 kg/cm²)

^{**} Probe types A, D, E non-conductive media only. Use auxiliary ground rod or stilling well (reference ground) in fiberglass or lined vessels. Teflon® is a registered trademark of E.I. Du Pont, 2006. All rights reserved.

TYPE "B" PROBE





Order from: C A Briggs Company 622 Mary Street; Suite 101; Warminster, PA 18974

2 Mary Street; Suite 101; Warminster, PA 18974 Phone: 267-673-8117 - Fax: 267-673-8118 Sales@cabriggs.com - www.cabriggs.com

