

ViscoPro 2100 CONFIGURATION GUIDE

Select the choice that best fits your needs by filling in the proper code in the highlighted box at the bottom.
Page 2 has detailed descriptions of each option.
Email your completed configuration code to sales@cambridgeviscosity.com

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ELECTRONICS

2

APPLICATION
PACKAGES

3

TEMPERATURE

4

AREA
CLASSIFICATION

5

PROCESS CONNECTION

6

VISCOSITY RANGE

7

OPTIONS

FLEXIBLE SYSTEM
TO FIT YOUR NEEDS

Each process environment
is unique and this
requires flexibility
when choosing your
viscometer's electronic
housing. PAC offers two
ViscoPro 2100 electronics
packaging configurations.

SAFE
AREA

EXPLOSION
PROOF AREA

E1
DIN-RAIL
MOUNTED

E2
EXPLOSION
PROOF
HOUSING

ENSURED CONFIDENCE IN
YOUR MEASUREMENTS

The ViscoPro is tuned for your
application through three available
performance packages. Each
package matches the accuracy,
repeatability, and available
outputs to a specific application
requirement.

BASIC
CV1

ADVANCED
CV2

PLUS
CV3

EXCELLENT ANALYSIS
FOR CHALLENGING
APPLICATIONS

Our unique oscillating piston
sensor technology can be
packaged in a low temperature
option for process measurements
up to 190°C. Alternatively, for
demanding high temperature
applications, the ViscoPro 2100
can be configured to measure up
to 375°C. (HT not available for
C3, C5 and C13)

MAX
190°C

MAX
375°C

LOW TEMP
LT

HIGH TEMP
HT

COMPLIANT TO
HAZARDOUS AREAS

Our viscometer is
certified for a variety
of hazardous area
certifications to meet
your specific needs.

ATEX
A1

NEC
A2

IECEX
A3

SAFE AREA
A4

CEC
A5

FLEXIBLE CONFIGURATION

The ViscoPro 2100 is a versatile instrument that provides
accurate viscosity analysis for a wide variety of industries,
including refinery, petrochemical, biomedical, beverage, and
optical. Our wide range of sensors ensures that our analyzer
can fit your process needs. Please choose the connection
which is the best fit for your application. More details, such as
temperature and hazardous area, are available on the back.

C1
301
1.25" NPT

C2
311
2" SANITARY

C3
501
1/2" NPT

C4
372
1/4" NPT

C5
571
13/16 UNEF

C6
392
SAE CODE 61

C7
393
2" ANSI 150#

C8
393
DIN 50 PN 40

C9
393
3" ANSI 300#

C10
393
2" ANSI 600#

C11
RTJ
900#

C12
DN 80
PN 40

C13
IN TANK

C14
302
1.25" NPT

PRECISELY
CALIBRATED
VISCOSITY RANGES

ViscoPro 2100 offers
viscosity ranges in 20:1
spans covering 0.25 to
10,000 cP.

2: 0.25-5 cP

3: 0.5-10 cP

4: 1-20 cP

5: 2.5-50 cP

6: 5-100 cP

7: 10-200 cP

8: 25-500 cP

9: 50-1000 cP

10: 100-2000

11: 250-5000-5 cP

12: 500-10000 cP

ADDITIONAL OPTIONS

Some configurations
require additional
information. Please
select the appropriate
options for your
application.

CABLE (E1-DIN RAIL ONLY)
☐ FT.

PRESSURE

☐ HIGH
(C4, C11, C14 ONLY)

☐ STANDARD

BODY LENGTH (C7, C12)

☐ 6 IN.

☐ 10 IN.

TEMPERATURE JACKET
(C4 ONLY)

☐ YES

☐ NO

IN-TANK STEM LENGTH
(C13 ONLY)

☐ 18"

☐ 36"

☐ 60"

PISTON MATERIAL

☐ STANDARD
430/316 SS

☐ 316L SS

☐ HASTELLOY

WIRELESS ADAPTOR

☐ YES

☐ NO

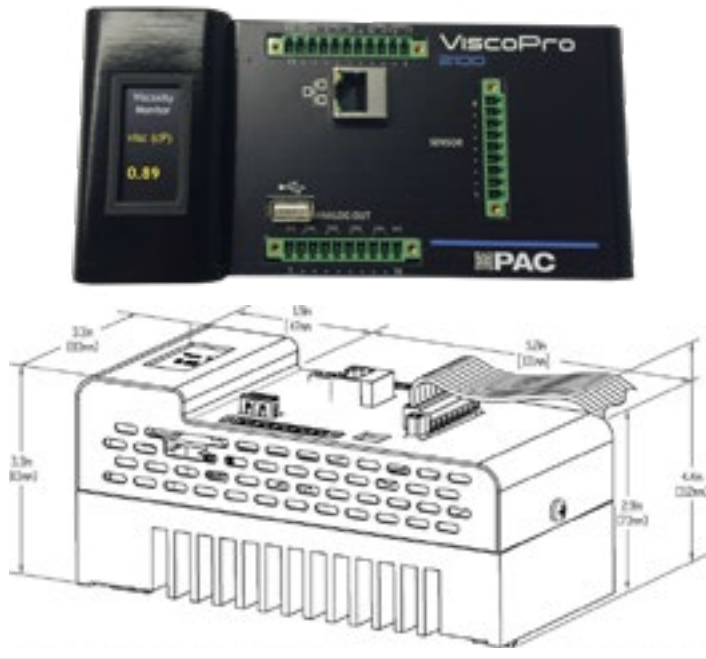
Your ViscoPro 2100
Configuration Code:

PAC

www.pacip.com

1 ELECTRONICS

E1 DIN RAIL MOUNTED



E2 EXPLOSION PROOF

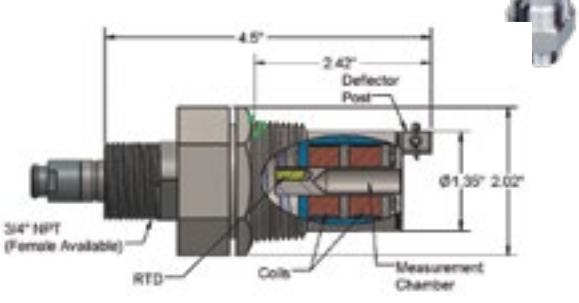


2 APPLICATION PACKAGES

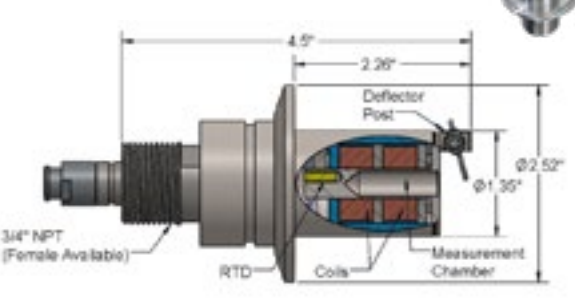
FEATURES/PACKAGE	CV1 CORE	CV2 ADVANCED	CV3 PLUS
4-20mA outputs (viscosity, temperature, temperature compensated viscosity)	2	4	4
Factory calibration for repeatability	1.5%	0.5% (outdoor)	0.5% (indoor)
Quality Indicator	●	●	●
Field configurable through a commissioning interface:			
• 4-20 mA scaling			
• Averaging		●	●
• Viscosity, temperature units			
• Temperature compensated viscosity			
• Bias adjustment			
RTU Modbus		●	●

5 PROCESS CONNECTION

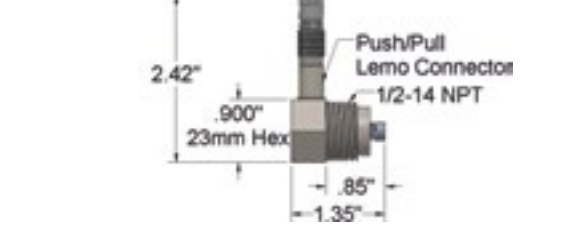
C1 MODEL 301: 1.25" NPT PIPE MOUNT



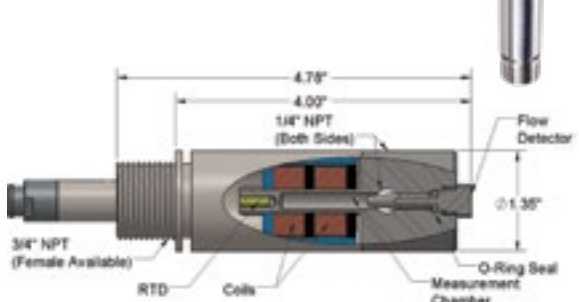
C2 MODEL 311: 2" QUICK DISCONNECT FLANGE



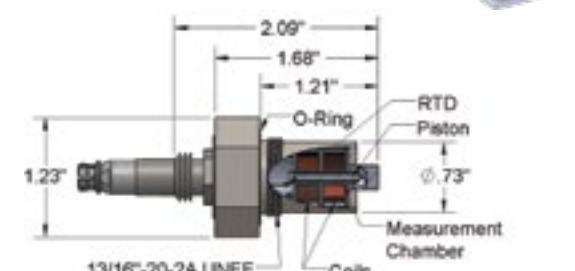
C3 MODEL 501: MINIATURE WITH 1/2" NPT SEAL



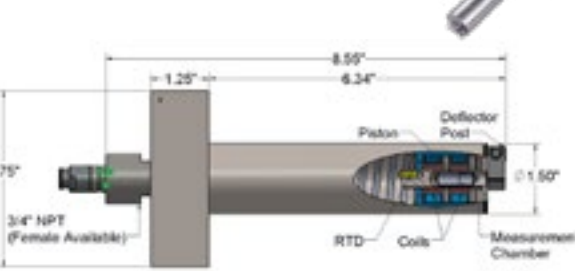
C4 MODEL 372: 1/4" NPT FLOW THROUGH



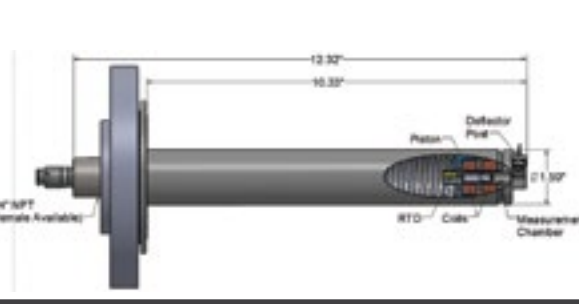
C5 MODEL 571: MINIATURE WITH O-RING SEAL



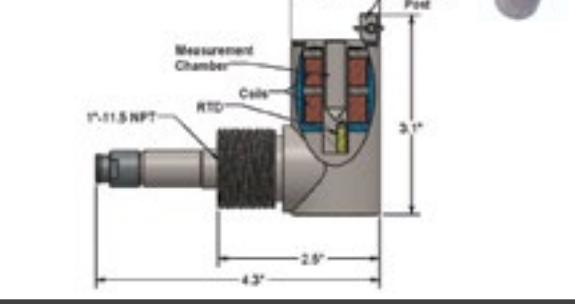
C6 MODEL 392: WIDE DIAMETER PIPE MOUNT WITH COMPACT SAE FLANGE



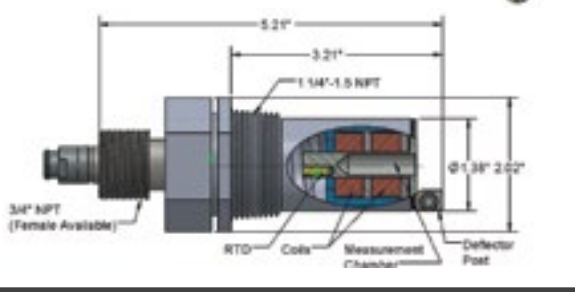
C7-C12 MODEL 393: WIDE DIAMETER PIPE MOUNT WITH ANSI/DIN ROUND FLANGE



C13 MODEL 321: TANK MOUNT FOR 1" NPT SHAFT



C14 MODEL 302: 1.25" NPT WIDE DIAMETER PIPE MOUNT



- NOTES:
- Almost all process connections are available in both temperature options (low or high), all area classifications, and viscosity ranges (from 0.2 to 10,000 cP). However, the 501 and 571 sensors are only available in the following options: low temperature, safe area, and up to 200 cP.
 - E1 electronics are separated by cable from the sensor. The standard cable length is 15' (4.5m), but may be optionally ordered up to 100' (30.5m). E2 electronics are rigidly mounted to the sensor.
 - Custom configurations available. Please consult factory.