

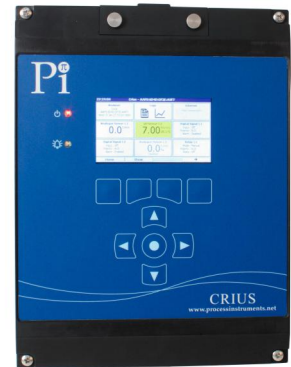
# Pi<sup>π</sup> Technical Note 22

## CoagSense Application Questionnaire

Pi are committed to ensuring that you get the best experience from your CoagSense. To ensure that the CoagSense is suitable to meet your coagulation control objectives we need the following information to get every installation right first time, every time. When you have completed the form please email it to your local sales organisation or direct to the factory.

### Contact Info

Name.....  
 E-mail.....  
 Mobile No.....  
 Plant Name.....  
 Town.....  
 Country.....  
 Date.....



### Application

- Application type: Water Plant, In-plant Process, DAF, Laundry, Other (explain):
- Batch Process: \_\_\_\_\_, Occasional Shutdowns: \_\_\_\_\_, or Continuous Online Process: \_\_\_\_\_.

#### 3. Quality Water Data (please indicate units):

|                               |            |            |               |
|-------------------------------|------------|------------|---------------|
| Flow Rate                     | Max: _____ | Min: _____ | Normal: _____ |
| TOC (Raw Water)               | Max: _____ | Min: _____ | Normal: _____ |
| UVA (Raw Water)               | Max: _____ | Min: _____ | Normal: _____ |
| UVA (Final Water)             | Max: _____ | Min: _____ | Normal: _____ |
| Turbidity (Raw Water)         | Max: _____ | Min: _____ | Normal: _____ |
| Turbidity (Settled Water)     | Max: _____ | Min: _____ | Normal: _____ |
| TDS (Raw Water)               | Max: _____ | Min: _____ | Normal: _____ |
| *Alkalinity (Raw Water)       | Max: _____ | Min: _____ | Normal: _____ |
| pH (Raw Water)                | Max: _____ | Min: _____ | Normal: _____ |
| *pH (Post Coagulant Addition) | Max: _____ | Min: _____ | Normal: _____ |
| Coagulant (PPM)               | Max: _____ | Min: _____ | Normal: _____ |

Coagulant Type: \_\_\_\_\_

- Raw water sample to be obtained from: open channel with submersible pump \_\_\_\_\_ pressurised line \_\_\_\_\_ gravity feed \_\_\_\_\_ other (explain): \_\_\_\_\_
- Post coagulant sample to be obtained from: open channel with submersible pump \_\_\_\_\_ pressurised line \_\_\_\_\_ gravity feed \_\_\_\_\_ other (explain): \_\_\_\_\_
- Is coagulant/flocculant being fed at a point that ensures thorough mixing with the stream before the post coagulant sample for CoagSense is taken? Yes \_\_\_\_\_ No \_\_\_\_\_

**\*MUST include**

7. Estimated (calculated) lag time from chemical feed point to sample take off point:

Under Max. flow: \_\_\_\_\_ seconds, Under Min. flow: \_\_\_\_\_ seconds

8. Does raw water flow change widely (+/-30%), and/or frequently in a relatively short time (e.g. once per hour).

Yes \_\_\_\_\_ No \_\_\_\_\_ If Yes, how often or quickly: \_\_\_\_\_

9. Is an open, atmospheric drain available at sensor location? Yes \_\_\_\_\_ No \_\_\_\_\_

10. Is coagulant currently paced on raw water flow? Yes \_\_\_\_\_ No \_\_\_\_\_

11. Which of the following instruments are already on site and able to provide an output for the CoagSense to use?

Raw Water

Turbidity:

pH:

UVA/UVT:

Settled Water

Turbidity:

pH:

Final Water

Turbidity:

UVA/UVT:

### Tell us more

If plans include using the CoagSense for Auto-Control, then please answer the following questions:

1. Is it planned to pace chemical on both a raw water flow and CoagSense signal, or just the CoagSense signal alone?

\_\_\_\_\_

2. Will the chemical feed control be performed by SCADA/PLC with a signal from the CoagSense or direct from the CoagSense?

\_\_\_\_\_

3. Does chemical feed pump accept: \_\_\_\_\_ 4-20mA signal \_\_\_\_\_ pulse?

### Drawing

Please draw below (or attach) a line diagram showing raw water flow, all chemical feed points, mixer, possible sample points, settling basins, filters, etc. Something like this:

