

Process Instruments

Quote Request Questionnaire

Please read through the questionnaire prior to completing and submitting. Fill in as many details as possible. If certain data is not available, please state N/A or 'Don't know'. Please note that parameters marked * must be completed.

Once completed send the form, using the details below, and B+S Process Instruments will contact you and provide a quotation for budgetary purposes.

Application Profile:

Company:*	<input type="text"/>	Contact:	<input type="text"/>
Address:	<input type="text"/>	Email:*	<input type="text"/>
City:*	<input type="text"/>	Phone:*	<input type="text"/>
Country:*	<input type="text"/>	Fax:	<input type="text"/>

Briefly describe your business sector (i.e. sugar industry/chemical industry/Instrumentation distributor/Contractor):*

Briefly describe the application where the PRH process refractometer is to be used:*

What will be the positioning of the refractometer?*

On-line Bypass Tank

What will be the orientation of the instrument? Vertical (flow upwards) Horizontal Don't know

Please list the products to be measured, showing details of concentration range where known:

Do any of the above products cause problems with cleaning under usual CIP regimes? (i.e. does the product cause scaling in the process line or leave protein deposits etc. that are difficult to remove?)

What is the flowrate of the product?

What is the typical maximum pressure of the line?

What is the viscosity of the product?

What instruments are currently used to monitor the product(s)? (i.e. hand refractometer, flow meter etc.)

What is the purpose of the refractometer? Monitoring Only Monitoring and Control Control Don't know

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B + S Process Instruments

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Temperatures and Cleaning:

What unit is used for temperature measurement? °F °C

What is the minimum product temperature?*

What is the maximum product temperature?*

What is the typical ambient temperature?

What is the maximum temperature for cleaning with water?*

What is the maximum temperature for CIP?*

Is steam used to clean the process line?* Yes No

What is the duration of the CIP cycle?

Who will install the PRH Refractometer? Self Local Contractor B+S Process Instruments

Any additional comments about the application or cleaning?

Instrumentation Specification:

Required range (Brix Equivalent):* 0-50 Brix (1.33 - 1.43 RI) 0-95Brix (1.33 - 1.54 RI) 1-37 - 1.58 RI

Required resolution & accuracy (resolution/accuracy - Brix equivalent):*

0.1 / ±0.5 Brix

0.1 / ±0.1 Brix

0.01 / ±0.05 Brix

Seal material for instrument and manifold gaskets:* Viton EPDM Kalrez

Scale required:* Brix Refractive Index %Concentration (User Defined) Probable Alcohol
 Baume Oeschle Starch

For % concentration (User Defined) how will the data be supplied?

From published data

From provided data

From samples provided

Temperature compensation type:

ICUMSA

User defined - from supplied data

User defined - from supplied samples

What will be the 'reference temperature' for the temperature compensation (i.e. 20 °C)?

Manifold Specification:

Select a standard manifold (main dimension/wall thickness):

None

1.5" Triclamp (1.63mm)

2" Triclamp (2mm)

3" Triclamp (2mm)

4" Triclamp (2.03mm)

3/4" Triclamp (1.6mm)

40mm DIN (1.5mm)

50mm DIN (1.5mm)

80mm DIN (2mm)

2" RJT (1.63mm)

2.5" RJT (1.63mm)

3" RJT (1.63mm)

1.5" IDF (1.63mm)

2" IDF (1.63mm)

3" IDF (1.63mm)

Tank mounted

Describe Hygiene Requirement:

Alternatively B+S Process Instruments can manufacture a manifold to your specifications:

What is the pipe outside diameter?
What is the pipe inside diameter?
What is the wall thickness?
What fitting types are required? (Note: Male fittings are suggested as standard)
Describe hygiene requirement:
Any other comments or requirements:

Electrical Specification:

What is the power source to the refractometer?	<input type="checkbox"/> 24vdc from existing supply (PLC)	<input type="checkbox"/> 90-250v~, 50/60Hz (mains)	<input type="checkbox"/> Don't Know	
Do you require any cable for the installation?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	How many metres are required?	
Will you connect to a new/existing PLC and what signal will be used?	<input type="checkbox"/> Yes - via 4-20ma connection	<input type="checkbox"/> Yes - via RS485 connection	<input type="checkbox"/> No connection to PLC	<input type="checkbox"/> Don't Know
Will you connect to a remote laboratory?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't Know	
If yes, what is the distance between the refractometer and the remote lab?				
Will you require PC driven data capture software?	<input type="checkbox"/> No	<input type="checkbox"/> Data Capture (max 4 instruments)	<input type="checkbox"/> Data Capture (with product profiling)	<input type="checkbox"/> Don't Know
Will you require PC driven maintenance software?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't Know	

ANALOGUE OUTPUTS:

What value should the 4mA output be set for (i.e. 5 Brix)?
What should the 20mA output be set for (i.e. 20 Brix)?

ALARMS:

What parameter should the alarms be monitoring?	<input type="checkbox"/> Prism Quality	<input type="checkbox"/> Concentration	<input type="checkbox"/> Product Temperature	<input type="checkbox"/> Sample Temperature	<input type="checkbox"/> None/Off
Enter the upper alarm value:					
Enter the lower alarm value:					

Where enquiries are received from geographical marketplaces that can not be easily serviced, or where applications fall outside of known instrument capabilities, B+S Process Instruments reserve the right not to provide a formal offer of supply.

Fax Form to: Within UK: 01892 543115 Within the USA: 1 770 822 9165 International: +44 1892 54115
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