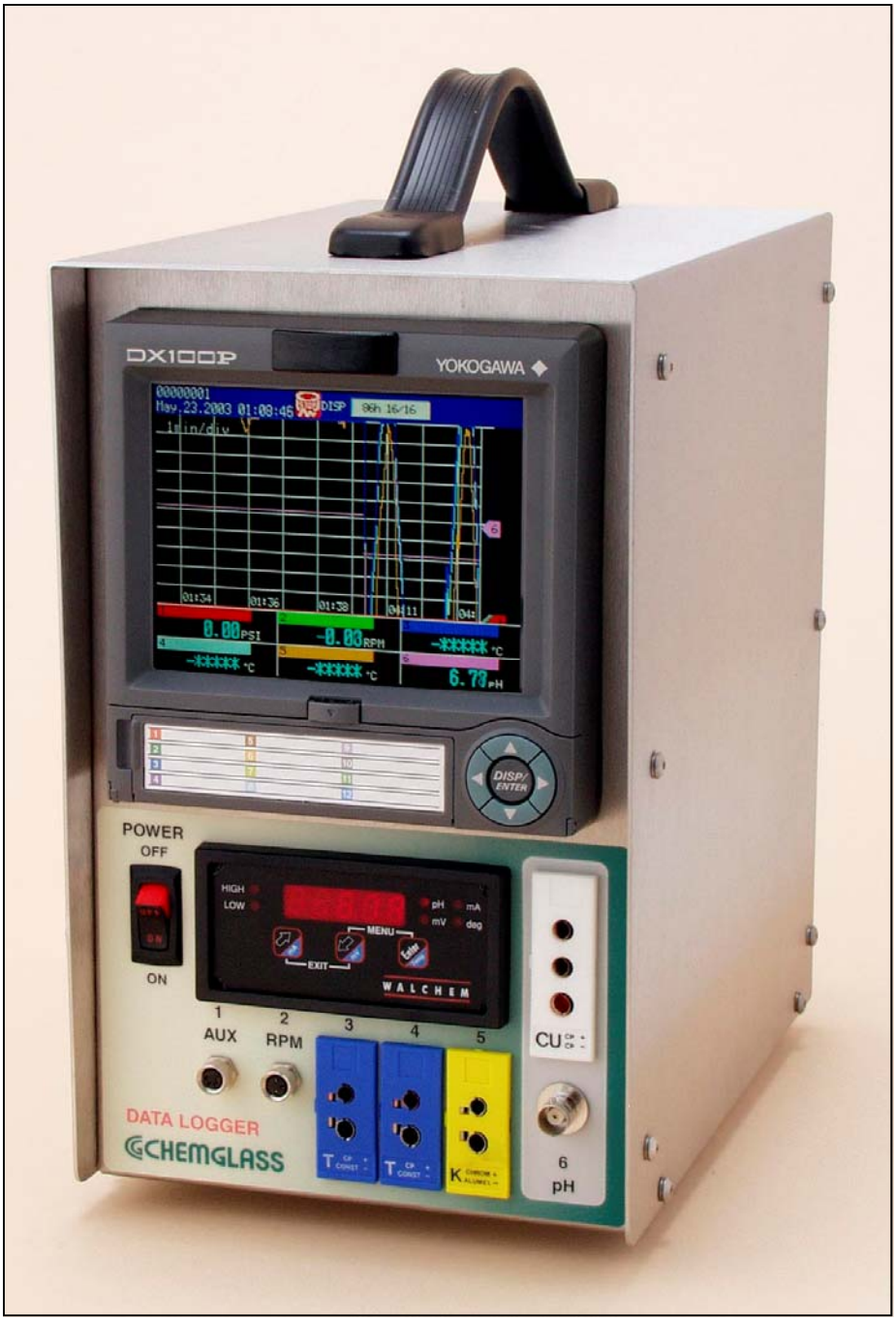
CHEMGLASS



OPERATIONS MANUAL

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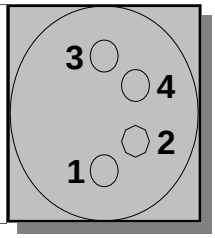
AUX INPUT CHANNEL 1:

PINOUT
Pin 1= Signal +VDC
Pin 2= Power Supply -24VDC
Pin 3= Signal -VDC
Pin 4= Power Supply +24VDC

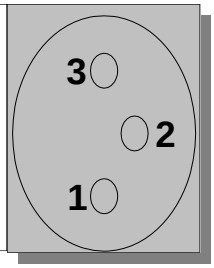


The AUX input is programmed to be used for a vacuum/pressure transducer input, but may be used for any other auxiliary input device. Pins 2 and 4 are supplied with 24VDC. Note, some models may not include the optional internal 24VDC power supply. Therefore requiring an external power supply for the input device. The input signal is applied though pins 1 and 3. The maximum input signal cannot exceed ± 60VDC. If using an analog 4-20mA input signal a 250Ω shunt resistor must be placed across Pins 1 and 3. Also, the Span_U value will need to be changed to 5 and the Range set to 6V. The Span is the minimum (lower) and maximum (upper) voltage input signal measured values. The Range value must be set so that it is slightly larger than the upper span voltage value. These values are preset, so the closest greater value must be selected. Refer to the Yokagawa manuals for more detail on setting the Scaling parameters. Shown are the settings which are pre-programmed with the Data Logger. A 4 pole Male Nano connector is required for connection.To change parameters consult the Yokagawa Users Manual.

PARAMETERS
Mode=Scale,
Type=Volt,
Range= 50V,
Span_L=0,
Span_U=24,
Scale_L=0,
Scale_U=10,
Unit=PSI.

RPM INPUT CHANNEL 2:

PINOUT
Pin 1= Signal +VDC
Pin 2= Not used
Pin 3= Signal -VDC



The RPM input is programmed to be used with the Chemglass DC 1/8HP Motor Controller or any device that outputs 0-10VDC. Note, when using the Chemglass 1/4HP DC motor Scale_U must be set to 500. If using an analog 4-20mA input signal a 250Ω shunt resistor must be placed across Pins 1 and 3. Also, the Span_U value will need to be changed to 5 and the Range set to 6V. The Span is the minimum (lower) and maximum (upper) voltage input signal measured values. The Range value must be set so that it is slightly larger than the upper span voltage value. These values are preset, so the closest greater value must be selected. Refer to the Yokagawa manuals for more detail on setting the Scaling parameters. Shown are the settings which are pre-programmed with the Data Logger. A 3 pole Male Nano connector is required for connection.To change parameters consult the Yokagawa Users Manual.

PARAMETERS
Mode=Scale,
Type=Volt,
Range= 20V,
Span_L=0,
Span_U=10,
Scale_L=0,
Scale_U=250,
Unit=RPM.

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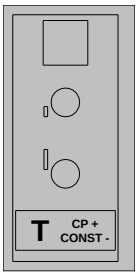
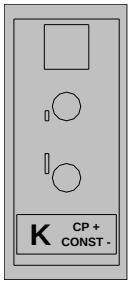
TYPE T THERMOCOUPLE INPUT CHANNEL 3 & 4:



Input 3 is a “T” style thermocouple input. The receptacle accepts both standard and mini male thermocouple plugs. The thermocouple input burnout function is set for Up. When the thermocouple burns out the displayed value will show a positive over range “+*****.” To change parameters consult the Yokagawa Users Manual.

PARAMETERS
Mode= TC,
Range= T,
Span_L= -200,
Span_U= 400,

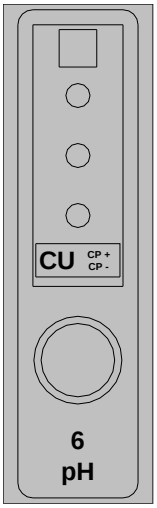
TYPE K THERMOCOUPLE INPUT CHANNEL 5:



Input 3 is a “K” style thermocouple input. The receptacle accepts both standard and mini male thermocouple plugs. The thermocouple input burnout function is set for Up. When the thermocouple burns out the displayed value will show a positive over range “+*****.” To change parameters consult the Yokagawa Users Manual.

PARAMETERS
Mode= TC,
Range= K,
Span_L= -200,
Span_U= 1370,

pH CONTROLLER INPUT CHANNEL 6:



Channel 6 displays the output data from the pH meter. This requires setting up both the pH meter and the Yokagawa so that output signal is scaled appropriately. To change parameters consult the Omega & Yokagawa Users Manuals.

PARAMETERS
Mode=Scale,
Type= Volt,
Range= 20V,
Span_L= 0,
Span_U= 10,
Scale_L= 0,
Scale_U= 14,
Unit= pH.

The pH meter can be used either with or without a temperature compensated probe. A RTD Receptacle has been provided for use with a temperature compensated probe. A two wire or three wire probe may be used. The contacts are; upper most contact (GND), middle contact (CP+), and lower contact (CP-). A plug end has been provided. Refer to your probes literature for electrical connections. Note, the temperature compensation feature must be turned On. Please refer to the Omega Users Manual for selecting temperature compensation mode. The pH probe is connected to the meter using a BNC style connector. If your probe does not have a BNC connector adapters are available, please contact Chemglass for adapter information. Please refer to the Omega Users Manual for probe calibration.

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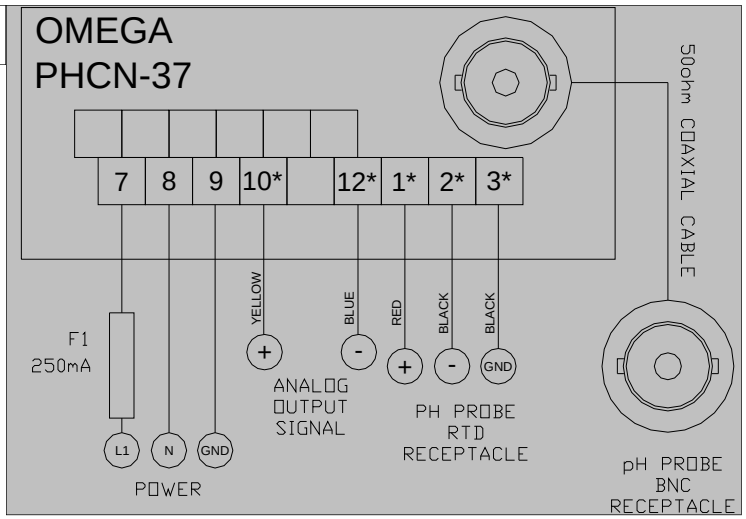
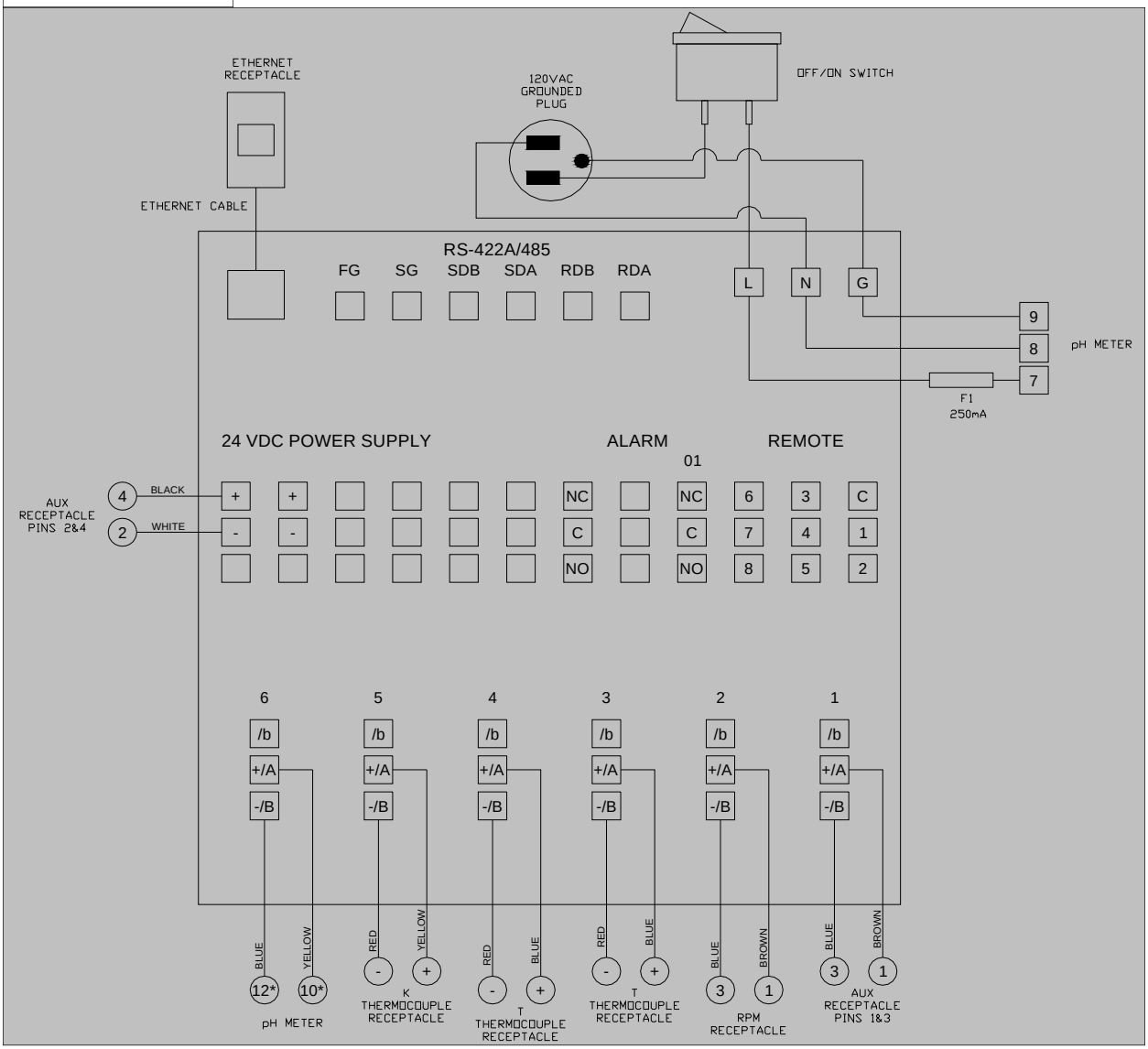
pH METER

ELECTRICAL SCHEMATICS



DATA



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ADDENDUM

EUROSTAR CONTROL VISC ANALOG INPUT

RPM INPUT CHANNEL 2:

Only use a use a Chemglass analog Eurostar to Data Logger communications cable when attaching a EUROSTAR CONTROL VISC Overhead Stirrer to the Data Logger. Note, that it is required the parameters be changed as listed. The Scale_L and Scale_U may require adjustment per Eurostar so that both RPM display's match.

PARAMETERS

Mode=Scale,
Type=Volt,
Range= 6V,
Span_L=0,
Span_U=2,
Scale_L=50,
Scale_U=2000,
Unit=RPM.

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