



Solumetrix Transmitter

4-20 MA/D2C

Transmitter compatible with Solumetrix 'B' series toroidal conductivity sensors, having internal signal processing:

Features:-

6 digit display,

Dual isolated 4-20mA outputs, of temperature, and conductivity.

Dual dc voltage outputs, 0-5V

Comprehensive setup features, allow range selection, scaling options, as well as adjustment of the temperature compensation rate.

Connections

SK1 Connection to sensor

SK2 Power supply input, +12v to +24v DC, 250ma

SK3 Temperature and compensated conductivity analog outputs, non isolated (Optional)

SK4 Temperature and compensated conductivity 4-20ma loop outputs, opto-isolated from power supply input and each other. Loop powered

SK5 Power output, = power supply input minus 0.7v. Can be common to one or both 4-20ma outputs to supply power for loop powered instruments.

Menus

Pressing the Up or Down buttons will cycle the display through the various parameters and values.

Pressing the Select button will change the display to the settable parameter (if any) for that option.

While in settings mode the up and down buttons change the value for that parameter.

Pressing Select again will go back to the normal menu mode.

Normal display	Setting	button
C xxxxx	Compensated conductivity in mS	None.
U xxxxx	Uncompensated conductivity is mS	None.

T xxx.xx	Temperature in C or F	Set Centigrade or
Fahrenheit.		
TE-C0	Temperature compensation	TC x.xx set Temp
comp %		
rAn	Set conductivity range.	200 or 20 mS
tE-4	Set temperature for 4-20ma 4ma out	Set temperature for
4ma		
tE-20	Set temperature for 4-20ma 20ma out	Set temperature for 20ma
CO-4	Set conductivity for 4-20ma 4ma out	Set temperature for
4ma		
CO-20	Set conductivity for 4-20ma 20ma out	Set temperature for 20ma
tE-A0	Set temperature for analog out 0v	Set temperature for 0v
tE-A5	Set temperature for analog out 5v	Set temperature for 5v
CO-A0	Set conductivity for analog out 0v	Set conductivity for 0v
CO-A5	Set conductivity for analog out 5v	Set conductivity for 5v

Notes:

If the 4ma level is set higher than the 20ma on a 4-20ma output or there is a sensor communications error then the output will be set to 20ma to indicate an error.

If the 0v level is set higher than the 5v level on an analog output or there is a sensor communications error then the output will be set to 5volts to indicate an error.