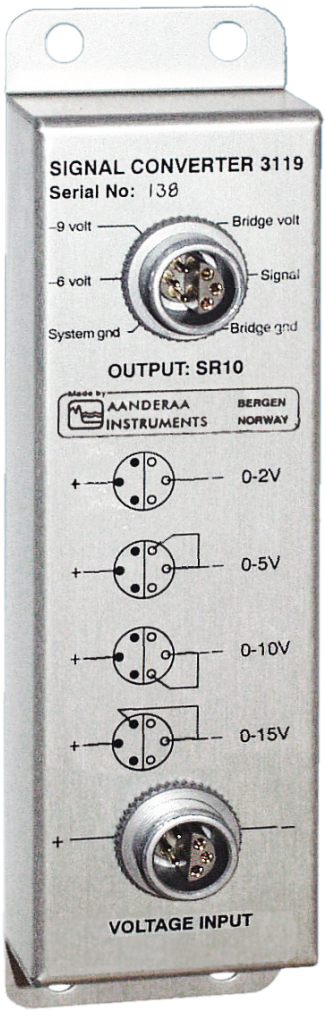
AANDERAA
a xylem brand



SIGNAL CONVERTER 3119

A unit to interface sensors with DC voltage output to Aanderaa measuring systems.

Aanderaa Instruments develops and manufactures a large variety of sensors for the 3010 based measuring system. All these sensors have the standard Aanderaa output, VR22 or SR10, and can be connected directly to the system. If a sensor with another output is to be used, the Signal Converter 3119 will interface the sensor with the system.

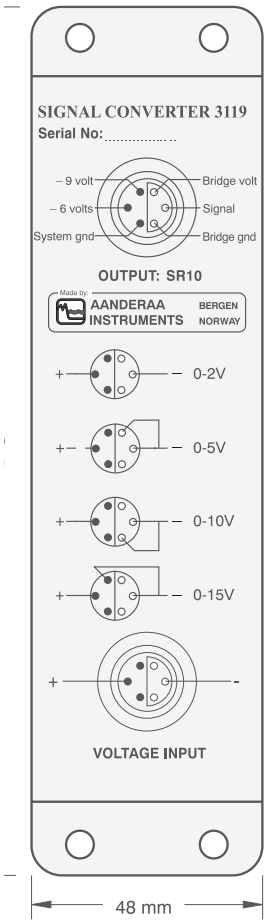
The converter is molded in scotchcast with an aluminum cover. This, together with the watertight input and output receptacles, makes the unit well suited for use in a harsh environment.

The input side is fully galvanically isolated from the output side. This feature allows sensors with differential output and systems with differences in ground levels to be connected. The input voltage from the sensor is converted to the SR10 type signal which is read by all Aanderaa Sensor Scanning or Reading Units.

The four input ranges are determined by the wiring of the input plug, see next page. A Connecting Cable 3484N is supplied with the unit.

A version for 0-20mA input signals, designated 3119B, is also available. Contact the factory for more information.

SPECIFICATIONS FOR SIGNAL CONVERTER 3119



Input Signals:	DC voltages. Available ranges see below
Output Signal:	SR10
Accuracy:	±0.2%
Input Protection:	Maximum 16V (Transorber SA16)
Isolation Ability:	Input/Output >1000V
Supply Voltage:	8 to 14 volt (supplied by the Datalogger or Reading Unit). Positive ground
Current Drain:	1mA average during control volt-age period. Quiescent: 10µA
Operating Temperature:	-40 to +50°C
Electrical Connection:	6 pin receptacle mating Cable 3484 and 2842
Material and Finish:	Aluminum, hard anodized 10-15µ
Weight:	300 grams.
Dimensions:	178 x 48 x 32 mm
Packing:	Cardboard box
Accessories (included) :	
For input signal :	Connecting Cable 3484N, 1.2m
Accessories (not included):	
For output signal :	Cable 2842 between 3119 and Datalogger. Specify lenght
Warranty:	Two years against faulty materials and workmanship

RANGE SELECTION

Serial No:

Input Voltage	Wiring of cable 3484 Cable Color code	Input Impedance	Calibration Coefficients
0 – 2V	Positive to Green Negative to Brown	>1GΩ	A: B: C: 0 D: 0
0 – 5V	Positive to Green Negative to Brown and Blue	>100kΩ	A: B: C: 0 D: 0
0 – 10V	Positive to Green Negative to Brown and Red	>100kΩ	A: B: C: 0 D: 0
0 – 15V	Positive to Green Negative to Brown and White	>100kΩ	A: B: C: 0 D: 0

Use formula VDC = A + BN + CN^2 + DN^3 for converting raw data to engineering units. N=raw data read by the Datalogger.

xylem
Let's Solve Water

Visit our Web site for the latest version of this document and more information
www.aanderaa.no

Aanderaa Data Instruments AS
Sanddalsringen 5b, P.O. Box 103 Midtun,
5828 Bergen, Norway
Tel +47 55 60 48 00
Fax +47 55 60 48 01