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## LON weather station for recording of meteorological data

such as: Temperature, brightness, twilight, wind speed, wind direction, radiation, pressure, humidity and rainfall, etc.

LM8 ANA GT 24VDC or <b>C3 ana GT</b> FTT or PLT	<b>Clima Sensor D</b> 4.9101.00.061	<b>Clima Sensor D TF</b> 4.9111.00.061	<b>Clima Sensor D W</b> 4.9100.00.061	<b>Clima Sensor D WTF</b> 4.9110.00.061
<b>Rainfall</b> measurment: ves / no  SNVT_switch	X	X	X	X
<b>Brightness</b> range: 1 – 65535 Lux measuring direction: south more brightness values: east / west  SNVT_lux	X	X	X	X
<b>Temperature</b> range: -20 - + 60 °C  SNVT_temp_p		X		X
<b>Humidity</b> range: 0-100 % rel. humidity  SNVT_lev_percent		X		X
<b>Wind speed</b> range: 0,5 – 40 m/s  SNVT_speed			X	X

## Technical data:

- Type of construction:  
**LM 8 ana GT:** snap-on housing  
145 x 111 x 50mm hoch  
**C3 ana GT:**  
snap-on housing (polyamide)  
with DIN-rail-Bus 22,5 x 99 x 113,5mm
- Degree of protection:  
IP20
- Weight:  
**LM 8 ana GT:** approx. 300g  
**C3 ana GT:** approx. 150g
- Climatic conditions:  
in accordance with UNITRO-Standard
- Connection:  
**LM 8 ana GT:**  
screw-type terminals/ plug connection  
max. 1,5mm<sup>2</sup>  
**C3 ana GT :**  
screw-type terminals/ plug connection  
max. 2,5mm<sup>2</sup>
- Supply voltage:  
**LM 8 ana GT:** 24V AC/DC, 220mA (± 10%)  
**C3 ana GT :** via DIN-rail-bus
- Function buttons:  
LM 8 ana GT: Reset + Service - button  
with Service LED yellow
- LED-display:  
LM 8 ana GT: operating LED green  
Service LED yellow:  
flashing = device not initialized  
continuous light = error  
**C3 ana GT:** see connection diagram
- Neuron chip:  
3150 + 64KB Flash-EEPROM
- Transmission:  
LON FTT10A two wire (twisted-pair),  
78kbps, max. 2,7km
- Bus connection:  
isolated transceiver,  
500V disconnecting insulation voltage
- Inputs:  
**with galvanic isolation (500V Uss),**  
temperature sensor: e.g.: -30°C to +70°C  
brightness sensor: e.g.: 0 to 100.000 Lux  
twilight sensor: e.g.: 0 to 2.000 Lux  
wind speed sensor: e.g.: 0,7 to 40m/s  
rainfall sensor: dry, rainfall  
wind direction sensor: 0° to 360°  
**etc.**
- Leakage distances and clearances:  
in accordance with UNITRO-Standard
- EMC, immunity of interference:  
UNITRO-Standard,  
in accordance with EN 61000

## Detailed documentation:

operating instructions, wiring diagrams, software  
with documentation, tender specifications,  
on the Internet at [www.unitro.de](http://www.unitro.de)