## **SIEMENS**

**Data sheet** 



SIMATIC S7-1500, analog input module AI 16xU BA, 16-bit resolution accuracy 0.5%, 16 channels in groups of 16, common mode voltage 4 V DC, diagnostics, hardware interrupts; delivery including infeed element, shield bracket and shield terminal: front connector (screw terminals or push-in) to be ordered separately

Product type designation HW functional status From FS01 Firmware version FW update possible Product function  I &M data I skM data I
Firmware version Firmware version Firmware version Froduct function  Is M data Second
FW update possible  Product function  I & M data I sockronous mode Prioritized startup Measuring range scalable Scalable measured values Adjustment of measuring range Profile of Step 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version FROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision Operating mode Oversampling MSI  CIR - Configuration in RUN Reparameterization possible in RUN Calibration possible from the backplane bus Power loss Py is M0 to 18 M3  Yes I M0 to 18 M3  Yes No V16 with HSP 312 / V17 V16 with HSP 31
Product function  I&M data  Isochronous mode  Prioritized startup  Mo  Measuring range scalable  Scalable measured values  Adjustment of measuring range  Engineering with  STEP 7 TIA Portal configurable/integrated from version  FROFIBUS from GSD version/GSD revision  PROFINET from GSD version/GSD revision  Oversampling  Mo  MSI  CIR - Configuration in RUN  Reparameterization possible in RUN  Power  Power loss
Is IAM data Isochronous mode Isochronous mode Prioritized startup No Measuring range scalable Scalable measured values Adjustment of measuring range No  Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision Oversampling MSI  CIR - Configuration in RUN  Reparameterization possible in RUN Power Power available from the backplane bus Power loss Power loss, typ.  Vo  No  No  No  No  No  No  No  No  Power loss Power loss, typ.  Over MSI  No  No  No  No  No  No  No  No  Power loss Power loss, typ.  Over MSI  No  No  No  No  No  No  No  No  No  Power loss Power loss, typ.  Over MSI  No  No  No  No  No  No  No  No  No  Power loss, typ.  Over MSI  No  No  No  No  No  No  No  No  Power loss Power loss, typ.
Isochronous mode Prioritized startup No Measuring range scalable Scalable measured values Adjustment of measuring range No  Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision Oversampling MSI  CIR - Configuration in RUN Reparameterization possible in RUN Power Power available from the backplane bus Power loss, typ.  No
Prioritized startup  Measuring range scalable Scalable measured values No Adjustment of measuring range No  Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision PROFINET from GSD version/GSD revision MSI  CiR - Configuration in RUN Reparameterization possible in RUN Power  Power available from the backplane bus Power loss, typ.  No No No No Power loss, typ.  No
Measuring range scalable Scalable measured values Adjustment of measuring range No  Engineering with STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision Operating mode Oversampling MSI  CiR - Configuration in RUN Reparameterization possible in RUN  Calibration possible in RUN  Power  Power available from the backplane bus Power loss, typ.  No No No No No No Power loss, typ.  No
Scalable measured values Adjustment of measuring range No  Engineering with  STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision Oversampling MSI  CIR - Configuration in RUN  Reparameterization possible in RUN  Calibration possible in RUN  Power  Power available from the backplane bus  Power loss Power loss, typ.  No  No  No  No  No  No  No  No  No  N
Adjustment of measuring range     Engineering with      STEP 7 TIA Portal configurable/integrated from version     STEP 7 configurable/integrated from version     STEP 7 configurable/integrated from version     PROFIBUS from GSD version/GSD revision     PROFINET from GSD version/GSD revision     PROFINET from GSD version/GSD revision     V2.3 /-  Operating mode     Oversampling     No     MSI     Yes  CIR - Configuration in RUN  Reparameterization possible in RUN  Calibration possible in RUN  Power  Power available from the backplane bus  Power loss  Power loss, typ.  No  V1.0 / V5.1  V2.3 /-  V1.0 / V5.1  V2.3 /-  V2.3 /-  V2.3 /-  V2.3 /-  V2.3 /-  V3.5 SP3 /-  V4.0 / V5.1  V5.5 SP3 /-  V5.5 SP3 /-  V5.6 SP3 /-  V5.6 SP3 /-  V5.6 SP3 /-  V5.7 SP3 /-  V5.8 SP3 /-  V5.9
Engineering with  STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision Operating mode Oversampling MSI Ves  CiR - Configuration in RUN Reparameterization possible in RUN Calibration possible in RUN Power Power available from the backplane bus Power loss Power loss, typ.  V1.0 / V5.1 V1.0 / V5.1 V2.3 /- V7.0 / V5.1 V7.0 / V
STEP 7 TIA Portal configurable/integrated from version STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision Operating mode Oversampling MSI  CiR - Configuration in RUN  Reparameterization possible in RUN  Calibration possible in RUN  Power  Power available from the backplane bus  Power loss  Power loss, typ.  V5.5 SP3 /- V7.0 / V5.1 V2.3 /- V2.3 /- V2.3 /-  V2.3 /-  No  V2.3 /-  No  V2.3 /-  No  V2.3 /-  No  V2.3 /-  Operating mode  Oversampling No  Ves  CiR - Configuration in RUN  No  Power  O.85 W
version  STEP 7 configurable/integrated from version PROFIBUS from GSD version/GSD revision PROFINET from GSD version/GSD revision V2.3 /-  Operating mode Oversampling MSI Yes  CIR - Configuration in RUN  Reparameterization possible in RUN  Calibration possible in RUN  Power  Power available from the backplane bus  Power loss  Power loss, typ.  V5.5 SP3 /- V1.0 / V5.1 V2.3 /- V2.5 SP3 /- V3.6 V3.6 V3.6 V3.6 V3.6 V3.6 V3.6 V3.6
<ul> <li>PROFIBUS from GSD version/GSD revision</li> <li>PROFINET from GSD version/GSD revision</li> <li>V2.3 / -</li> </ul> Operating mode <ul> <li>Oversampling</li> <li>MSI</li> <li>Yes</li> </ul> CiR - Configuration in RUN Reparameterization possible in RUN <ul> <li>Yes</li> </ul> Calibration possible in RUN <ul> <li>No</li> </ul> Power <ul> <li>Power available from the backplane bus</li> <li>Power loss</li> <li>Power loss, typ.</li> <li>0.75 W</li> </ul>
<ul> <li>◆ PROFINET from GSD version/GSD revision</li> <li>✓ Operating mode</li> <li>◆ Oversampling</li> <li>♠ MSI</li> <li>✓ Yes</li> <li>CiR - Configuration in RUN</li> <li>Reparameterization possible in RUN</li> <li>✓ Calibration possible in RUN</li> <li>No</li> <li>Power</li> <li>Power available from the backplane bus</li> <li>O.75 W</li> </ul>
Operating mode  Oversampling  MSI  Yes  CIR - Configuration in RUN  Reparameterization possible in RUN  Calibration possible in RUN  No  Power  Power available from the backplane bus  O.85 W  Power loss  Power loss, typ.  0.75 W
Oversampling  MSI  Yes  CiR - Configuration in RUN  Reparameterization possible in RUN  Calibration possible in RUN  No  Power  Power available from the backplane bus  Power loss  Power loss, typ.  0.75 W
● MSI  CiR - Configuration in RUN  Reparameterization possible in RUN  Calibration possible in RUN  No  Power  Power available from the backplane bus  Power loss  Power loss, typ.  1 Yes  No  No  No  0.85 W
CiR - Configuration in RUN  Reparameterization possible in RUN  Calibration possible in RUN  No  Power  Power available from the backplane bus  Power loss  Power loss, typ.  0.75 W
Reparameterization possible in RUN  Calibration possible in RUN  No  Power  Power available from the backplane bus  0.85 W  Power loss  Power loss, typ.  0.75 W
Calibration possible in RUN  Power  Power available from the backplane bus  O.85 W  Power loss  Power loss, typ.  0.75 W
Power available from the backplane bus  Power loss  Power loss, typ.  0.85 W  0.75 W
Power available from the backplane bus  0.85 W  Power loss  Power loss, typ.  0.75 W
Power loss Power loss, typ. 0.75 W
Power loss, typ. 0.75 W
•
Analog inputs
Number of analog inputs 16
• For voltage measurement 16
permissible input voltage for voltage input (destruction limit), max. 1 s
Input ranges (rated values), voltages
• 0 to +5 V No
• 0 to +10 V No
• 1 V to 5 V Yes
— Input resistance (1 V to 5 V) 10 MΩ

Input registance ( 1 V to 11 V)	10 MO
— Input resistance (-1 V to +1 V)	10 ΜΩ
• -10 V to +10 V	Yes
— Input resistance (-10 V to +10 V)	10 ΜΩ
• -2.5 V to +2.5 V	No 
• -25 mV to +25 mV	No 
• -250 mV to +250 mV	No
• -5 V to +5 V	Yes
<ul><li>— Input resistance (-5 V to +5 V)</li></ul>	10 ΜΩ
● -50 mV to +50 mV	No
● -500 mV to +500 mV	No
● -80 mV to +80 mV	No
Cable length	
• shielded, max.	200 m
Analog value generation for the inputs	
Measurement principle	integrating
Integration and conversion time/resolution per channel	
<ul> <li>Resolution with overrange (bit including sign), max.</li> </ul>	16 bit
<ul> <li>Integration time, parameterizable</li> </ul>	Yes
<ul><li>Integration time (ms)</li></ul>	2,5 / 16,67 / 20 / 100 ms
<ul> <li>Basic conversion time, including integration time</li> </ul>	10 / 24 / 27 / 107 ms
(ms)	
<ul> <li>additional conversion time for wire-break monitoring</li> </ul>	4 ms (to be considered for 1 to 5 V measurement)
Interference voltage suppression for interference	400 / 60 / 50 / 10 Hz
frequency f1 in Hz	
Smoothing of measured values	
<ul> <li>parameterizable</li> </ul>	Yes
Step: None	Yes
Step: low	Yes
Step: Medium	Yes
Step: High	Yes
Encoder	
Encoder  Connection of signal encoders	
	Yes
Connection of signal encoders	Yes
Connection of signal encoders  • for voltage measurement	Yes 0.1 %
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)	
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)	0.1 %
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input	0.1 % 0.006 %/K
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	0.1 % 0.006 %/K -50 dB
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Operational error limit in overall temperature range	0.1 % 0.006 %/K -50 dB 0.1 %
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Operational error limit in overall temperature range  • Voltage, relative to input range, (+/-)	0.1 % 0.006 %/K -50 dB
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Operational error limit in overall temperature range  • Voltage, relative to input range, (+/-)  Basic error limit (operational limit at 25 °C)	0.1 % 0.006 %/K -50 dB 0.1 %
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Operational error limit in overall temperature range  • Voltage, relative to input range, (+/-)  Basic error limit (operational limit at 25 °C)  • Voltage, relative to input range, (+/-)	0.1 % 0.006 %/K -50 dB 0.1 % 0.5 %
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Operational error limit in overall temperature range  • Voltage, relative to input range, (+/-)  Basic error limit (operational limit at 25 °C)  • Voltage, relative to input range, (+/-)  Interference voltage suppression for f = n x (f1 +/- 1 %), f1 =	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Operational error limit in overall temperature range  • Voltage, relative to input range, (+/-)  Basic error limit (operational limit at 25 °C)  • Voltage, relative to input range, (+/-)  Interference voltage suppression for f = n x (f1 +/- 1 %), f1 =  • Series mode interference (peak value of interference < rated value of input range), min.	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency 40 dB
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Operational error limit in overall temperature range  • Voltage, relative to input range, (+/-)  Basic error limit (operational limit at 25 °C)  • Voltage, relative to input range, (+/-)  Interference voltage suppression for f = n x (f1 +/- 1 %), f1 =  • Series mode interference (peak value of interference < rated value of input range), min.  • Common mode voltage, max.	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency 40 dB 4 V
Connection of signal encoders	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency 40 dB
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Operational error limit in overall temperature range  • Voltage, relative to input range, (+/-)  Basic error limit (operational limit at 25 °C)  • Voltage, relative to input range, (+/-)  Interference voltage suppression for f = n x (f1 +/- 1 %), f1 =  • Series mode interference (peak value of interference < rated value of input range), min.  • Common mode voltage, max.	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency 40 dB 4 V
Connection of signal encoders	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency 40 dB 4 V
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Operational error limit in overall temperature range  • Voltage, relative to input range, (+/-)  Basic error limit (operational limit at 25 °C)  • Voltage, relative to input range, (+/-)  Interference voltage suppression for f = n x (f1 +/- 1 %), f1 =  • Series mode interference (peak value of interference < rated value of input range), min.  • Common mode voltage, max.  • Common mode interference, min.  Interrupts/diagnostics/status information	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency 40 dB  4 V 60 dB
Connection of signal encoders	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency 40 dB  4 V 60 dB
Connection of signal encoders	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency 40 dB  4 V 60 dB
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Operational error limit in overall temperature range  • Voltage, relative to input range, (+/-)  Basic error limit (operational limit at 25 °C)  • Voltage, relative to input range, (+/-)  Interference voltage suppression for f = n x (f1 +/- 1 %), f1 =  • Series mode interference (peak value of interference < rated value of input range), min.  • Common mode voltage, max.  • Common mode interference, min.  Interrupts/diagnostics/status information  Diagnostics function  Alarms  • Diagnostic alarm	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency 40 dB  4 V 60 dB  Yes
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Operational error limit in overall temperature range  • Voltage, relative to input range, (+/-)  Basic error limit (operational limit at 25 °C)  • Voltage, relative to input range, (+/-)  Interference voltage suppression for f = n x (f1 +/- 1 %), f1 =  • Series mode interference (peak value of interference < rated value of input range), min.  • Common mode voltage, max.  • Common mode interference, min.  Interrupts/diagnostics/status information  Diagnostics function  Alarms  • Diagnostic alarm  • Limit value alarm	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency 40 dB  4 V 60 dB  Yes
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Operational error limit in overall temperature range  • Voltage, relative to input range, (+/-)  Basic error limit (operational limit at 25 °C)  • Voltage, relative to input range, (+/-)  Interference voltage suppression for f = n x (f1 +/- 1 %), f1 =  • Series mode interference (peak value of interference < rated value of input range), min.  • Common mode voltage, max.  • Common mode interference, min.  Interrupts/diagnostics/status information  Diagnostics function  Alarms  • Diagnostic alarm  • Limit value alarm  Diagnoses	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency 40 dB  4 V 60 dB  Yes  Yes  Yes; two upper and two lower limit values in each case
Connection of signal encoders	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency 40 dB  4 V 60 dB  Yes  Yes  Yes; two upper and two lower limit values in each case  No
Connection of signal encoders	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency 40 dB  4 V 60 dB  Yes  Yes  Yes  Yes; two upper and two lower limit values in each case  No Yes; Only for 1 5 V
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Operational error limit in overall temperature range  • Voltage, relative to input range, (+/-)  Basic error limit (operational limit at 25 °C)  • Voltage, relative to input range, (+/-)  Interference voltage suppression for f = n x (f1 +/- 1 %), f1 =  • Series mode interference (peak value of interference < rated value of input range), min.  • Common mode voltage, max.  • Common mode interference, min.  Interrupts/diagnostics/status information  Diagnostics function  Alarms  • Diagnostic alarm  • Limit value alarm  Diagnoses  • Monitoring the supply voltage  • Wire-break  • Short-circuit	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency 40 dB  4 V 60 dB  Yes  Yes  Yes  Yes; two upper and two lower limit values in each case  No Yes; Only for 1 5 V No
Connection of signal encoders  • for voltage measurement  Errors/accuracies  Linearity error (relative to input range), (+/-)  Temperature error (relative to input range), (+/-)  Crosstalk between the inputs, max.  Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)  Operational error limit in overall temperature range  • Voltage, relative to input range, (+/-)  Basic error limit (operational limit at 25 °C)  • Voltage, relative to input range, (+/-)  Interference voltage suppression for f = n x (f1 +/- 1 %), f1 =  • Series mode interference (peak value of interference < rated value of input range), min.  • Common mode voltage, max.  • Common mode interference, min.  Interrupts/diagnostics/status information  Diagnostics function  Alarms  • Diagnostic alarm  • Limit value alarm  Diagnoses  • Monitoring the supply voltage  • Wire-break  • Short-circuit  • Group error	0.1 % 0.006 %/K -50 dB 0.1 %  0.5 %  0.3 % interference frequency 40 dB  4 V 60 dB  Yes  Yes  Yes  Yes; two upper and two lower limit values in each case  No Yes; Only for 1 5 V No No



• RUN LED	Yes; green LED
• ERROR LED	Yes; red LED
MAINT LED	No
<ul> <li>Monitoring of the supply voltage (PWR-LED)</li> </ul>	No
<ul> <li>Channel status display</li> </ul>	Yes; green LED
<ul> <li>for channel diagnostics</li> </ul>	Yes; red LED
<ul> <li>for module diagnostics</li> </ul>	Yes; red LED
Potential separation	
Potential separation channels	
<ul> <li>between the channels</li> </ul>	No
<ul> <li>between the channels, in groups of</li> </ul>	16
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
Permissible potential difference	
between the inputs (UCM)	8 V DC
Between the inputs and MANA (UCM)	4 V DC
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
<ul> <li>horizontal installation, min.</li> </ul>	-30 °C
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
<ul> <li>vertical installation, min.</li> </ul>	-30 °C
<ul> <li>vertical installation, max.</li> </ul>	40 °C
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm
Weights	
Weight, approx.	250 g

1/19/2021

last modified: