

SIWAREX U

SIWAREX U	
Integration in automation systems:	
• S5-95U/DP (PROFIBUS master)	Via ET 200M
• S5-115U/-135U/-155U	Via ET 200M
• S7-300	Direct integration
• S7-400	Via ET 200M
• PCS 7	Via ET 200M
• M7-300	Direct integration
• M7-400	Via ET 200M
• C7	Via IM or ET 200M
• Automation systems from other vendors	Via ET 200M
Stand-alone (without SIMATIC CPU)	Possible with IM 153-1
Communication interfaces	• SIMATIC S7 (P bus) • RS 232 • TTY
Connection of remote indicators (through TTY serial interface)	Gross, channel 1, 2 or default value 1, 2
Adjustment of scales settings	Using SIMATIC S5/S7/M7/C7 (P bus) or SIWATOOL U parameterization software (RS 232)
Measuring properties	
• Error limit according to DIN 1319-1 of full-scale value at 20 °C ± 10 K	0,05 %
• Internal resolution Data format of weight values	65.535 2 byte (fixed-point)
Number of measurements/second	50
Digital filter	0.05 - 5 Hz (in 7 steps), mean-value filter
Weighing functions	
• Weight values	Gross
• Limits	2 (min./max.)
• Zero setting function	Per command
Load cells	Strain gauges in 4-wire or 6-wire system
Load cell powering	

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Supply voltage U_s (rated value)	10.3 V DC
Max. supply current	≤ 240 mA single-channel ≤ 120 mA two-channel
Permissible load resistance (per weighing channel)	
R_{Lmin}	$> 41 \Omega$ single-channel $> 82 \Omega$ two-channel
R_{Lmax}	$< 4010 \Omega$
	With Ex(i) interface:
R_{Lmin}	$> 87 \Omega$
R_{Lmax}	$< 4010 \Omega$
Permissible load cell characteristic	Up to 4 mV/V
Permissible range of measuring signal (at greatest set characteristic)	-1.5 to +42.5 mV
Max. distance of load cells	1000 m (300 m in Ex area (up to 1000 m, depending on the gas group))
Intrinsically-safe load cell powering	Optional (Ex interface)
Supply voltage 24 V DC	
- Rated voltage - Max. current consumption	24 V DC 220 mA
Voltage supply from backplane bus	typ. 100 mA
Certification	UL, CSA, FM
IP degree of protection to DIN EN 60,529; IEC 60,529	IP20
Climatic requirements T_{min} (IND) to T_{max} (IND) (operating temperature)	
- Vertical installation - Horizontal installation	0 ... +60°C 0 ... +40°C
EMC requirements according to	NAMUR NE21, Part 1 89/386/EEC