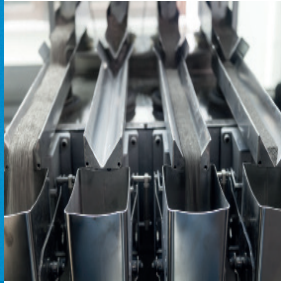# Powerful and Compact Transmitter

Modern Setup and Condition Monitoring

Faster Data Transfer

Fast 200Hz update rate allows for improved efficiency and optimized weighing processes in any machine. This high speed of update enables up-to 10X's higher throughput of weighing data when compared to other devices, leading to higher overall operational throughput.

Quick Installation

Up and running in minutes through a user-friendly interface. The ACT100 is integrated with a webserver that enables more flexibility. Additionally, users benefit from remote access and servicing from anywhere.

Onboard Display Keypad

A built-in display and keypad provides easy setup and condition monitoring with real text messages. This also enables increased uptime when executing calibration, adjustment, or troubleshooting at the source.
Four LED indicators for one-view status allows increased insight into equipment operation.

Condition Monitoring

ACT100 includes many functions that report both running status and error conditions. In addition to the onboard display, the ACT100 includes I/O points that are mapped to error conditions and 24mA is used to indicate error condition.

ACT100 Weight Transmitter
Fast 4-20mA Analog Output

The ACT100 analog weight transmitter delivers accurate measurement at fast speeds. It provides modern service features remote access via Ethernet.

Choose the ACT100 and benefit from:
- Easy connection to PLCs and DCSs
- 4-20mA, 0-10V output @ 200Hz
- Remote setup via Integrated webserver
- Easy configuratiton via OLED display and keypad
- Operational insight - real text messages
- Space savings - compact housing – only 40mm wide
- Automated control through Fast digital IO
- Easy connection to most analog, strain-gage, scales
- CalFree™ weight free adjustment
- ATEX / IECEx / FM (ACT100xx only)

METTLER TOLEDO

ACT100 Weight Transmitter

Parameters		Units of Measure	ACT100	ACT100xx
Housing	Enclosure Type		DIN-Rail mount, rugged plastic, quick connection with automatic 3-point grounding	
	W x H x D	mm / in	40 x 110 x 100 (1.6 x 4.3 x 4)	
	Shipping Weight	kg/ lb	0.6 (1.3)	
	Environmental protection		IP20, Type 1	
	Legal for Trade	°C / °F	-10 to 40 / 14 to 104 10% to 90% rel. Humidity, non-condensing	
	Operation	°C / °F	-10 to 50 / 14 to 122 10% to 90% rel. Humidity, non-condensing	
	Storage	°C / °F	-40 to 60 / -40 to 140 10% to 90% rel. Humidity, non-condensing	
Measuring Rate	Update rate	Hz	200Hz	
	Digital Filtering		TraxDSP low pass filter, corner frequency adjustable 1-20 Hz	
Connectivity	Analog Output		4-20mA, 0-20mA, 0-24mA, 0-5V, 0-10V - 16 bit resolution	
	Service Interfaces		Ethernet TCP/IP RJ45 webserver; keyboard and display	
Power Requirement	Peak at startup	VDC / mA	12-30VDC; 1000mA	
	Normal operation	VDC / W	12-30VDC; 4.1W	
Power Dissipation		W	<5W	
Scale	Scale type		Analog load cells	
	Number of input devices		up to 4x 350 Ω; 1-4mV/V	
	Number of scales		1	
	Scale excitation voltage	VDC	5	
	Calibraton		Zero / Span with Linearization up to 5 points; Step; CalFree	
Display	Type		Green OLED incl. weight display, weight units, gross/net indication and graphic symbols for motion, center of zero.	
	Character height	mm / in	5.6 / 0.22	
	LED Status		Scale (SCL), Power (PWR), Analog Output (AO), Device (DEV)	
	Weight Display		Maximum 7 digits	
Keypad			4 keys (Up, Down, Left, Enter); 0.9 mm thick polyester overlay (PET) with 0.178mm thick polycarbonate display lense	
Approvals	Product Safety		UL, cUL, CE, FCC	
	Hazardous	Global	n/a	Ex nA IIC T4 Gc Ex ec IIC T4 Gc -10°C ≤ Ta ≤ +40°C IECEx FMG 19.0043X
		Europe		II 3 G Ex nA IIC T4 Gc II 3 G Ex ec IIC T4 Gc -10°C ≤ Ta ≤ +40°C ATEX FM19ATEX0213X
		US and Canada		ANI Class I, II, III Division 2, Groups A-D, F, G ; ANI Class I Zone 2 IIC (US only) ANI Zone 22 IIIB (US only) -10°C ≤ Ta ≤ +40°C FM FM19CA0119X; FM FM19US0223X
Digital IO	Input		3x Input - Functions: None, Clear Tare, Tare, Zero, Start SetPoint, Abort Set Point; Voltage range high: 10~24 VDC; voltage range low 0~3 VDC	
	Output		2x Output - Functions: None, CoZ, Comparator, Fault, Motion, Net, OverCapacity, UnderZero, Fast Feed, Fine Feed, Analog Output Over Range, Analog Output Under Range; Voltage range high: 12~30 VDC	

Order Information ACT100	Description	ACT100 Item No.
ACT100	WEIGH TRANSM ACT100	30529619
ACT100xx	WEIGH TRANSM ACT100xx	30529621

Accessories	Item No.	
Spare Connector Kit	30558733	

Suitable Power Supply	Item No.	
In 100-240VAC, Out 24VDC 2.5A for up to 10x ACT100	64090848	

ACT100xx Automation Network Configuration

FM Division 2, / ATEX Zone 2/22

Safe Area
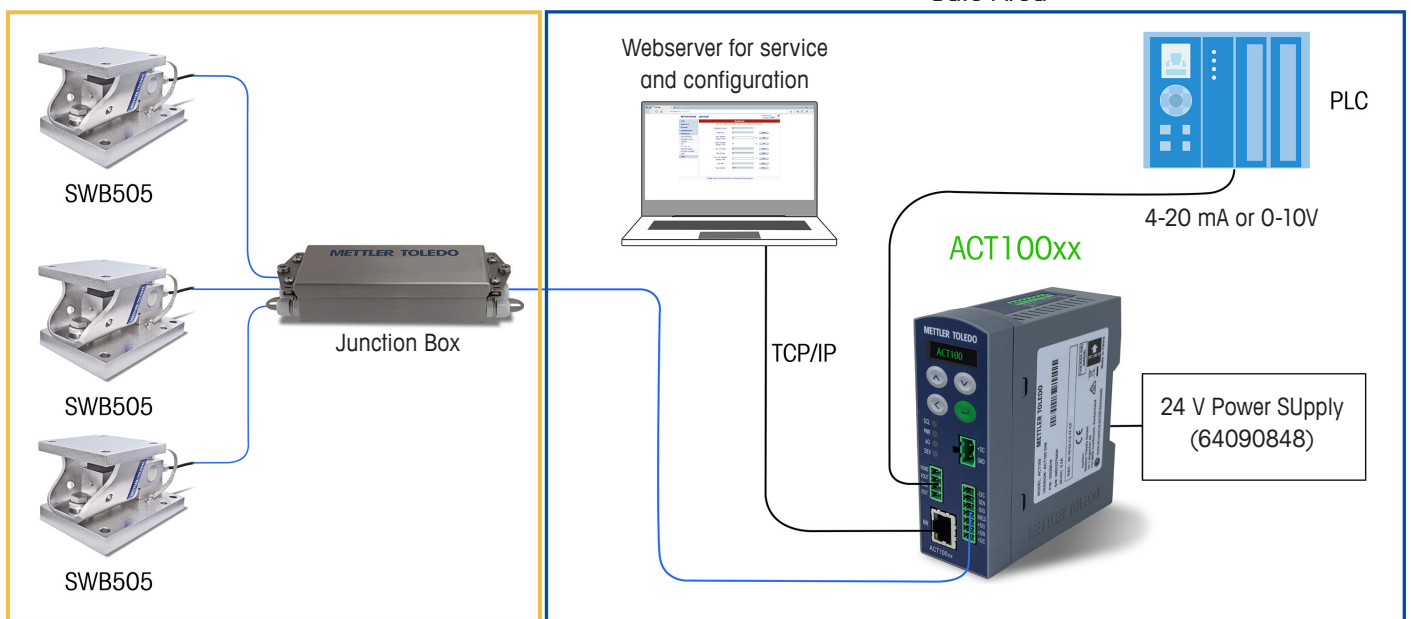
SWB505

SWB505

SWB505

Junction Box

Webserver for service and configuration

TCP/IP

ACT100xx

PLC

4-20 mA or 0-10V

24 V Power SUpply
(64090848)

www.mt.com

For more information