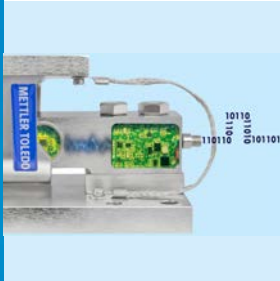


Predictive Diagnostics

Protect Your Process from Downtime



Powercell® Digital Load Cell Connection

By easily connecting to Powercell® load cells and weigh modules, it offers predictive diagnostics for individual load cells and warns before a potential issue or malfunction occurs. A junction box is not required, facilitating easy installation and high accuracy.



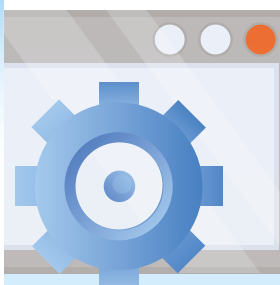
Fast PLC Integration

The ACT350 Powercell supports fast PLC connectivity via the most common industrial networks. Dual Ethernet ports support daisy-chain and ring topologies.



Onboard Display and Keypad

The local display and keypad provide easy setup and diagnostics directly at the unit. Transmitter status and weight value are easy to check independent of other devices. In addition, the compact DIN-rail housing saves valuable cabinet space.



Convenient Webserver Configuration

The ACT350 Powercell includes a web server, allowing for setup and control via Ethernet remotely from any network location in the facility.



ACT350 Powercell Weight Transmitter

The ACT350 Powercell weight transmitter delivers precise measurement and monitoring of individual load cells. Transmitter features include:

- Predictive diagnostics for each individual load cell
- CalFREE™ Plus automated weightless calibration
- RunFlat – Production continuity in case of load cell failure
- TraxDSP™ configurable vibration filtering
- PROFINET® IO, EtherNet/IP™, PROFIBUS® DP network connectivity
- OLED display and keypad
- Compact housing
- OIML and NTEP approvals
- Service interface
- 24 VDC operation (12 VDC for ACT350xx POWERCELL)
- ATEX / IECEx / FM (ACT350xx POWERCELL only)

ACT350 Powercell Weight Transmitter

Parameter	Units of Measure	ACT350 Powercell	ACT350xx Powercell	
Housing	Enclosure Type		DIN-Rail mount, plastic, with setup and monitoring interface	
	W x H x D	mm (in)	40 x 110 x 100 (1.6 x 4.3 x 4)	
	Shipping Weight	kg (lb)	0.5 (1.1)	
	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 40 / 14 to 104 10% to 90% rel. Humidity, non-condensing	
Measuring Rate	Storage	°C / °F	-40 to 60 / -40 to 140 10% to 90% rel. Humidity, non-condensing	
	Analog/Digital update rate	Hz	Auto-adaption to Powercell network: 100Hz with 1 ~ 4 Powercell load cells; 50Hz with 5 ~ 8 Powercell load cells; 25Hz with 9 ~ 14 Powercell load cells;	
Connectivity	Digital Filtering		TraxDSP low pass filter, stability filter	
	Fieldbus interface		PROFINET®, EtherNet IP, PROFIBUS® DP	
	Ethernet Switch		On board for PROFINET® IO, EtherNet/IP	
	Protocol		SAI - Standard Automation Interface - with both Cyclic and Acyclic Command and Data reporting capability.	
Power Requirement	VDC / mA	24 VDC/2500 mA with 14 Powercell load cells ²⁾	12VDC /2000mA with 4 POWERCELL load cell	
Scale	Scale type		Powercell-based or PowerMount	
	Number of load cells		up to 14 Powercell load cells	
	Number of scales		1	
	Number of scale ranges		1	
	Load cell excitation voltage	VDC	24VDC	12VDC
Display	Calibraton Type		Zero/Span with Linearization up to 5 points; Step; CalFreePlus	
	Type		Green OLED incl. weight display, weight units, gross/net indication and graphic symbols for motion, center of zero. 10 updates/sec	
	Character height	mm (in)	5.6 (0.22)	
	LED Status		Scale (SCL), Power (PWR), Network (NW), Device (DEV)	
Keypad	Weight Display		Maximum displayed resolution 980 000 divisions	
	Keypad		4 keys (Up, Down, Left, Enter); 0.9 mm thick polyester overlay (PET) with 0.178mm thick polycarbonate display lens	
Approvals	Weights and Measure		Europe: OIML Class III TC8790 T1 1060	
	Electrical Safety ¹⁾		UL, cUL	
	Hazardous	Global & China		Ex nA IIC T4 Gb Ex ec IIC T4 Gb -10°C ≤ Ta ≤ +40°C IECEX DEK 18.0022x
		Europe		II 3 G Ex nA IIC T4 Gb II 3 G Ex ec IIC T4 Gb -10°C ≤ Ta ≤ +40°C DEKRA 18 ATEX 0036x
		US and Canada		ANI Class I, II, III Division 2, Groups C, D, F, G ANI Class I Zone 2 IIB (US only) ANI Zone 22 IIIB (US only) -10°C ≤ Ta ≤ +40°C FM 17US0354x FM 17CA0171x
ACT350xx POWERCELL must be placed in a safe area. See diagram on the following page				
Digital Input/Output	Software Comparators		5 Software Comparators	
	Physical		3x IN, 5x Out Logical High Voltage: 10 ... 24 VDC; Logical Low Voltage: 0 ... 5 VDC;	

¹⁾ Webserver available only for PROFINET IO and EtherNet/IP versions.

²⁾ Only use recommended 24 VDC power supply approved as NEC Class 2 or rated as Limited Power per IEC60950-1.

Order Information ACT350 Powercell

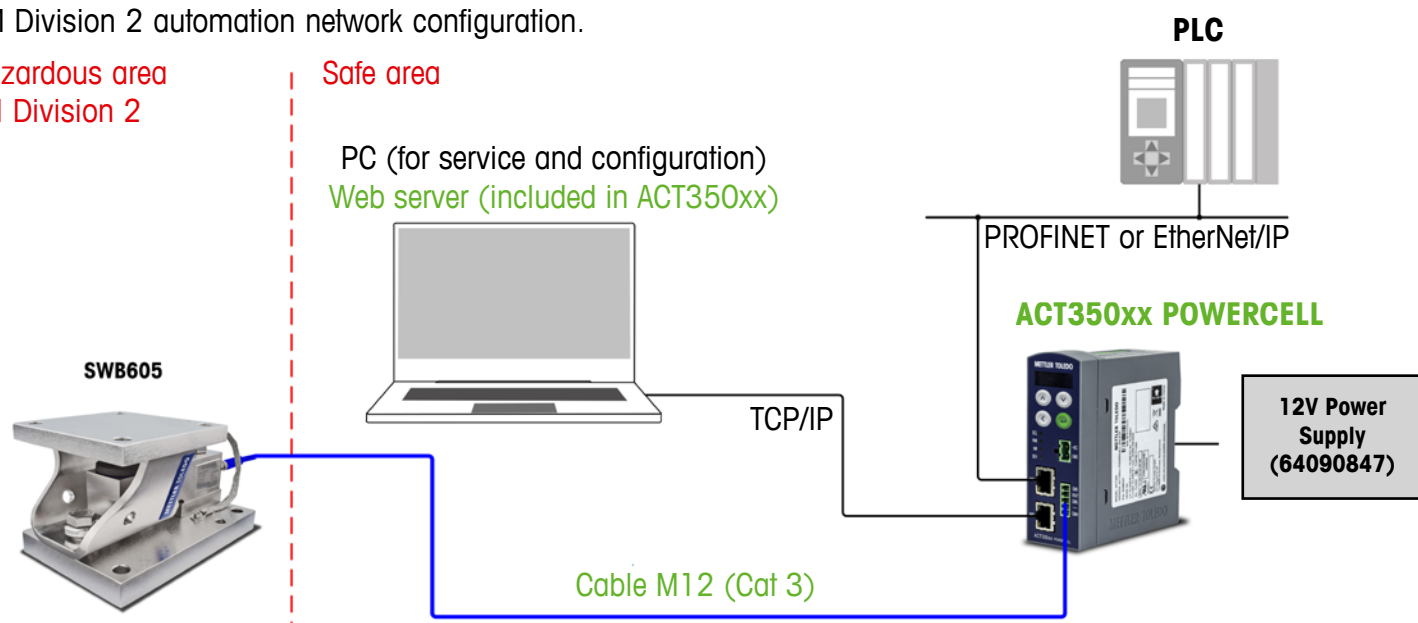
	ACT350 Powercell Item No.	ACT350xx Powercell Item No.
PROFIBUS DP	30278660	30388326
PROFINET IO	30278661	30388327
EtherNet/IP	30278662	30388328
Accessories		Item No.
Spare Connector Kit		30423982
Suitable Power Supply		Item No.
In 100-240VAC, Out 24VDC 2.5A for up to 5x for ACT350POWERCELL		64090848
In 100-240VAC, Out 12VDC 2.3A for ACT350xx POWERCELL		64090847

ACT350xx POWERCELL

FM Division 2 automation network configuration.

Hazardous area
FM Division 2

Safe area



METTLER TOLEDO Group
Industrial Division
Local contact: www.mt.com/contacts

www.mt.com

For more information

Subject to technical changes
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