














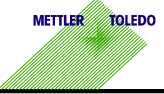
	IND130	Hawk	Panther	Panther Plus	IND310	IND425	IND435	IND445	IND465	IND429	IND439 Check	IND449 Check+	IND560	IND690	IND780
															
	Process Control	Basic Weigh	Over Under Simple Fill Process Control	Over Under Simple Fill	Vehicle In/Out	Dynamic & Basic Weigh	Count Basic Weigh	Over Under Count Basic Weigh	Database Over/Under Count Basic Weigh	Dynamic & Basic Weigh	Transactional Checkweigh	Transactional Checkweigh	Material Transfer Over Under Process Control	Fill, Batch, Formulation, Data Control, Basic Weight, Count	Programmable Process Control
Display															
Type	-	LCD	VF	VF	Monochrome, graphic LCD, 1/4 VGA	LCD	LCD	LCD	Graphic	LCD	LCD	LCD	64 x 128 Dot Addr VF	40 x 170 Dot active VF	Backlit LCD Graphic Monochrome or Active TFT Color
Alpha Weight Height (mm)	-	25	12.7	12.7	24 (max)	16	16	16	10 / 21 (max)	16	16	16	21 (max)	35 (max)	34 (max)
Keypad															
Function	-	4	6	6	14	6	10	14	14	6	14	14	9	17	14
Numeric	-	-	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	✓
Alpha	-	-	-	-	✓	-	-	-	✓	-	-	-	✓	✓	✓
QWERTY	-	-	-	-	✓	-	-	-	✓	-	-	-	-	✓	✓
Power Supply															
Standard	20-28 VDC	110-240 VAC	110-240 VAC	110-240 VAC	110-240 VAC	120 / 230 VAC opt 12-20 VDC	120 / 230 VAC opt 12-20 VDC	120 / 230 VAC opt 12-20 VDC	120 / 230 VAC opt 17-24 VDC	110-240 VAC opt 12-24 VDC	110-240 VAC opt 12-24 VDC	110-240 VAC opt 12-24 VDC	87 - 264 VAC	100-240 VAC	100-240 VAC
Battery Option	-	✓	-	-	-	✓	✓	✓	✓	✓	✓	✓	-	-	-
Enclosures															
Panel	-	-	✓	-	-	-	-	-	-	-	-	-	✓	✓	✓
Panel Protection	-	-	IP65	-	-	-	-	-	-	-	-	-	Type 4 / 4X	IP69K	IP65
Desk / Wall	DIN Rail	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Desk/Wall Protection	IP65	IP44, IP65	IP65	IP65	IP69k	IP65	IP65	IP65	IP65	IP69K	IP69K	IP69K	IP69K	IP69K	IP69K
Desk/Wall Material	Plastic	Plastic, SS	SS	SS	SS	Cast Aluminum	Cast Aluminum	Cast Aluminum	Cast Aluminum	SS	SS	SS	SS	SS	SS
Platforms															
Maximum Number	1	1	1	1	2	1	2	2	2	1	1	1	1	4	4
Type	Analog	Analog	Analog	Analog	Analog / POWERCELL	Analog	Analog	Analog	Analog	Analog / IDNet	Analog / IDNet	Analog / IDNet	Analog / IDNet	Analog / IDNet / SICS	Analog / POWERCELL / IDNet / SICS
Scale SUM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Max # 350Ω Analog Cells	4	4	8	8	8 per channel, up to 16 total	4	4	4	4	4	4	4	8	4 per channel	8 per channel, up to 16 total
Excitation Voltage	5		5	5	12	8.2	8.2	8.2	8.2	8.2	8.2	8.2	10	8.75	10
Output Signal		2 or 3 mV/V	2 or 3 mV/V	2 or 3 mV/V	2 or 3 mV/V	2 or 3 mV/V	2 or 3 mV/V	2 or 3 mV/V	2 or 3 mV/V	2 or 3 mV/V	2 or 3 mV/V	2 or 3 mV/V	2 or 3 mV/V	2 or 3 mV/V	2 or 3 mV/V
Analog Update Rate *			300 / sec	300 / sec		14 / sec	14 / sec	14 / sec	10 / sec	14 / sec	14 / sec	14 / sec	366/sec	20 / sec	366/sec
Separate Span Adjust	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	**	✓
Linearity Adjustment		-	-	-	3 or 4 points	3 or 5 points	3 or 5 points	3 or 5 points	3 or 5 points	3 or 5 points	3 or 5 points	3 or 5 points	5 points	4 points	5 points
Max Analog Display Res	10,000d	10.000d	10.000d	10.000d	5.000d	300.000d	300.000d	300.000d	300.000d	300.000d	300.000d	300.000d	100.000d	1.000.000d	1.000.000d
MultiRange		-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Variable Test Load		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Entry of Calibration Data	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Printing															
Min # of Templates	-	-	-	-	4	2 & 4 headers	2 & 4 headers	2 & 4 headers	5 & 4 headers	2 & 4 headers	2 & 4 headers	2 & 4 headers	5	6	10
Note	* Other update rates noted in the Product Documentation ** Function of the weighing cell														

	IND130	Hawk	Panther	Panther Plus	IND310	IND425	IND435	IND445	IND465	IND429	IND439 Check	IND449 Check+	IND560	IND690	IND780	
<b>Communication</b>																
Standard Serial Ports	-	1	1	1	2	1	1	1	3 + PS2	1	1	1	1	1 + PS2	2 + USB + Ethernet	
# Optional Ports	1	0	0	0	0	1	1	1	1	1	1	1	3	8	2	
RS232	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
RS422	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
RS485	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
20mA Current Loop	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Ethernet	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
USB -slave	-	-	-	-	-	✓	✓	✓	✓	-	-	-	✓	✓	Master *	
Bluetooth	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	
WLAN	-	-	-	-	-	-	-	-	-	-	✓	✓	-	✓	-	
Barcode Input	-	-	-	-	-	-	-	✓	✓	-	-	-	✓	✓	✓	
<b>Internal PLC Interface</b>	External PLC communications available for DeviceNet and Analog Output															
Analog Output	-	-	✓	✓	-	-	-	-	-	-	-	-	✓	✓	with A100	
RIO	✓	-	✓	-	-	-	-	-	-	-	-	-	✓	-	✓	
Profibus	✓	-	✓	-	-	-	-	-	-	-	-	-	✓	✓	✓	
ControlNet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	
EtherNet/IP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	
Modbus	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	
DeviceNet	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Discrete I/O</b>																
Internal I/O discrete	1 In / 2 Out	-	1 In / 3 Out	1 In / 3 Out	-	4 In / 4 Out	4 In / 4 Out	4 In / 4 Out	4 In / 4 Out	4 In / 4 Out	4 In / 4 Out	4 In / 4 Out	4 In / 6 Out	-	8 In / 8 Out	
Max. Discrete I/O	1 In / 2 Out	-	1 In / 3 Out	1 In / 3 Out	-	4 In / 4 Out	4 In / 4 Out	4 In / 4 Out	4 In / 4 Out	4 In / 4 Out	4 In / 4 Out	4 In / 4 Out	12 In / 18 Out	64 In / 64 Out	40 In / 56 Out	
<b>Application</b>																
Unit Switching	1 In / 2 Out	lb, kg, g	lb, kg, g, lb-oz, oz, ozt, dwt, t, T	lb, kg, g, lb-oz, oz, ozt, dwt, t, T	lb, kg, g, oz, ozt, dwt, t, T, custom	g, kg, lb, oz, t	g, kg, lb, oz, t	g, kg, lb, oz, t	g, kg, lb, oz, t, custom	g, kg, lb, oz, t	g, kg, lb, oz, t	g, kg, lb, oz, t	g, kg, lb, oz, lb-oz, ozt, dwt, t, ton, custom	g, kg, lb, oz, ozt, dwt, mg	g, kg, lb, oz, lb-oz, ozt, dwt, t, ton, custom	
Time & Date	-	-	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	✓	
ID Entry	-	-	-	-	✓	-	-	✓	✓	-	-	✓	✓	✓	-	
Rate measurement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	
Targets	✓	-	2	2	✓	-	-	✓	✓	-	✓	✓	✓	✓	✓	
Totalizing	-	-	-	-	✓	-	-	✓	✓	-	-	-	✓	✓	✓	
Tare / Target Storage	1	-	-	10	10++ **	-	-	99	1500	-	99	99	25	999	100++ **	
Counting	-	-	-	-	-	-	✓	✓	✓	-	-	-	-	✓	-	
Alibi Memory	-	-	-	-	✓	-	-	✓	✓	-	-	-	✓	✓	✓	
Vibration Damping	TraxDSP	✓	TraxDSP	TraxDSP	✓	✓	✓	✓	✓	✓	✓	✓	TraxDSP	✓	TraxDSP	
Custom Programming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	TaskExpert	
<b>OIML / NTEP Approval</b>	OIML: Class 6,000e / NTEP 10,000d	NTEP: Class III 5,000d	OIML: Class III 5,000e / NTEP: Class III 10,000d	OIML: Class III 5,000e / NTEP: Class III 10,000d	NTEP: Class III 10,000d	OIML: Class II 100,000e, Class III 7,500e / NTEP: Class II 100,000d, Class III 10,000d	OIML: Class II 100,000e, Class III 7,500e / NTEP: Class II 100,000d, Class III 10,000d	OIML: Class II 100,000e, Class III 7,500e / NTEP: Class II 100,000d, Class III 10,000d	OIML: Class II 100,000e, Class III 7,500e / NTEP: Class II 100,000d, Class III 10,000d	OIML: Class II 100,000e, Class III 7,500e / NTEP: Class II 100,000d, Class III 10,000d	OIML: Class II 100,000e, Class III 7,500e / NTEP: Class II 100,000d, Class III 10,000d	OIML: Class II 100,000e, Class III 7,500e / NTEP: Class II 100,000d, Class III 10,000d	OIML: Class II 100,000e, Class III 7,500e / NTEP: Class II 100,000d, Class III 10,000d	OIML: Class II 100,000d, Class III 10,000e / NTEP: Class II 100,000d, Class III 10,000d	OIML: Class II 32,000e, Class III 10,000e / NTEP: Class II 100,000d, Class III 10,000d	OIML: Class II 32,000e, Class III 10,000e / NTEP: Class II 100,000d, Class III 10,000d
Note	* USB Master ONLY supports a USB keyboard or USB 2.0 Certified flash memory drive. No other devices are supported. ** Memory dependent															