



































	IND130	IND221 IND226	Panther	IND131-331	Panther Plus	IND310	IND425	IND435	IND445	IND465	IND429	IND439 Check	IND449 Check+	IND560	IND690	IND780
																
	Process Control	Over Under Classify Count Basic Weigh	Over Under Simple Fill Process Control	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, Count	Material Transfer Process Control Programmable
<b>Display</b>																
Type	-	LED	VF	OLED	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 Graphic
Alpha Weight Height (mm)	-	-	-	✓	-	✓	-	-	-	✓	-	-	-	✓	✓	✓
	-	30 (1.2 in)	12.7	4 / 12	12.7	24 (max)	16	16	16	10 / 21 (max)	16	16	16	21 (max)	35 (max)	34 (max)
<b>Keypad</b>																
Function	-	6	6	4	6	14	6	10	14	14	6	10	14	9	17	14
Numeric	-	-	-	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	✓
Alpha	-	-	-	-	-	✓	-	-	-	✓	-	-	-	✓	✓	✓
QWERTY	-	-	-	-	-	✓	-	-	-	✓	-	-	-	-	✓	✓
<b>Power Supply</b>																
Standard	20-28 VDC	100-240 VAC	110-240 VAC	100 - 240 VAC or 24VDC	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	-	✓	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	-	-	-
<b>Enclosures</b>																
Panel	-	-	✓	✓	-	-	-	-	-	-	-	-	-	✓	✓	✓
Panel Protection	-	-	IP65	IP65	-	-	-	-	-	-	-	-	-	Type 4x / 12 (ref IP65)	IP54	Type 4x / 12 (ref IP65)
Panel-mount Material				Stainless Steel panel face + Plastic DIN Chassis												
Desk / Wall	DIN Rail / Box	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Desk/Wall Protection	IP20 / IP65	IP54, IP65	IP65	IP66	IP65	IP69k	IP65	IP65	IP65	IP65	IP69K	IP69K	IP69K	IP69K	IP69K	IP69K
Desk/Wall Material	Plastic (DIN) / Stainless Steel	Plastic, Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Cast Aluminum	Cast Aluminum	Cast Aluminum	Cast Aluminum	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
DIN-Rail Mount				✓												
DIN-Rail Mount Protection				IP20												
DIN-Rail Mount Material				Plastic												
J-Box				✓												
J-Box Protection				IP69K												
J-Box Material				Stainless Steel												
<b>Platforms</b>																
Maximum Number	1	1	1	1	1	2	1	2	2	2	1	1	1	1	4	4
Type	Analog	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Yes (not W&M approved)	Yes, W&M approved
Max # 350Ω Analog Cells	4	4	8	4	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	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	2 or 3 mV/V
Analog Update Rate *	300 / sec		300 / sec	366 / 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	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ Analog / **IDNet	✓ Analog / **IDNet	✓ Analog / **IDNet
Linearity Adjustment				3 points	-	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	3 points	5 points
Max Analog Display Res	10,000d	30,000d	10,000d	100,000d	10,000d	5,000d	300,000d	300,000d	300,000d	300,000d	300,000d	300,000d	300,000d	100,000d	450,000d	1,000,000d
MultiRange				-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Variable Test Load		✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	✓	✓	✓
Entry of Calibration Data	✓	-	✓	✓	✓	✓	-	-	-	-	-	-	-	✓	✓	✓
<b>Printing</b>																
Max # 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	7+	10

Note		* Other update rates noted in the Product Documentation ** Function of the weighing cell															
		IND130	IND221 IND226	Panther	IND131-331	Panther Plus	IND310	IND425	IND435	IND445	IND465	IND429	IND439 Check	IND449 Check+	IND560	IND690	IND780
																	
<b>Communication</b>																	
Standard Serial Ports	-	1	1	1	1	2	1	1	1	1	3 + PS2	1	1	1	1	1 + PS2	2 + USB + Ethernet
# Optional Ports	1	0	0	1	0	0	1	1	1	1	1	1	1	1	3	7	2
RS232	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RS422	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RS485	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
20mA Current Loop	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	✓	-
Ethernet	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	-	-	✓	✓	-
USB -slave	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	Master *
Bluetooth	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WLAN	-	-	-	-	-	-	-	-	-	-	-	✓	✓	-	-	✓	-
Barcode Input	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	✓	✓	✓
<b>Internal PLC Interface</b> External devices available for PLC communications to DeviceNet and Analog Output																	
Analog Output	-	-	✓	✓	✓	-	-	-	-	-	-	-	-	-	✓	✓	with A100
RIO	✓	-	✓	✓	-	-	-	-	-	-	-	-	-	-	✓	-	✓
Profibus	✓	-	✓	✓	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
ControlNet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓
EtherNet/IP	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	✓	-	✓
Modbus TCP	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-	-	✓
DeviceNet	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-	✓	-	✓
<b>Discrete I/O</b>																	
Internal I/O discrete	1 In / 2 Out	-	1 In / 3 Out	2 In / 4 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 / 6 Out	4 In / 4 Out	8 In / 8 Out
Max. Discrete I/O	1 In / 2 Out	-	1 In / 3 Out	2 In / 4 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	-	-	12 In / 18 Out	64 In / 64 Out	40 In / 56 Out
<b>Calibration</b>																	
Traditional	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Step	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
Internal	-	-	-	-	-	-	-	-	-	-	✓	✓	✓	✓	✓	✓	✓
CalFREE®	✓	-	-	✓	-	-	-	-	-	-	-	-	-	-	✓	✓	✓
<b>Application</b>																	
Unit Switching	-	lb, kg	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	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, oz, dwt, t, ton, custom	g, kg, lb, oz, ozt, dwt, mg	g, kg, lb, oz, lb-oz, oz, dwt, t, ton, custom
Time & Date	-	-	-	-	✓	✓	-	-	✓	✓	-	-	✓	✓	✓	✓	✓
ID Entry	-	-	-	-	-	✓	-	-	✓	✓	-	-	✓	✓	✓	✓	✓
Rate measurement	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	✓	-	✓
Targets	✓	1	2	1	2	✓	-	-	✓	✓	-	✓	✓	1	✓	1	1 per scale
Comparators	-	-	-	3	-	-	-	-	-	-	-	-	-	-	5	-	10 (Total)
Totalizing	-	-	-	-	-	✓	-	-	✓	✓	-	-	-	-	✓	✓	✓
Tare / Target Storage	1	1	-	-	10	10++ **	-	-	99	1500	-	99	99	25	999	999++ **	
Counting	-	✓	-	-	-	-	✓	✓	✓	✓	-	-	-	-	✓	-	-
Alibi Memory	-	-	-	-	-	✓	-	-	✓	✓	-	-	-	-	✓	-	✓
Vibration Damping	TraxDSP	✓	TraxDSP	TraxDSP	TraxDSP	✓	✓	✓	✓	✓	✓	✓	✓	✓	TraxDSP	✓	TraxDSP
Custom Programming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	TaskExpert
<b>OIML / NTEP Approval</b>		-	OIML: Class III 6,000e / NTEP: Class III/III 10,000d	OIML: Class III 5,000e / NTEP: Class III 10,000d	OIML: Class III 6,000e / NTEP: Class III/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 100,000d, Class III 32,000e, Class III 10,000e / NTEP: Class II 100,000d, Class III 10,000d	OIML: Class II 100,000d, Class III 32,000e, Class III 10,000e / NTEP: Class II 100,000d, Class III 10,000d	OIML: Class II 100,000d, Class III 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															