DISTECH CONTROLS™

Product Comparison Chart

ECL Series

LONMARK Certified Programmable Controllers

	ECL-103	ECL-203	ECL-253	ECL-300	ECL-350	ECL-400	ECL-403	ECL-410	ECL-413	ECL-450	ECL-453	ECL-600	ECL-610	ECL-650	ECx-400	ECx-410	ECx-420
General																	
Controller Status LED	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Interactive color operator interface			■		■					■	■			■			
Real-Time Clock				■	■	■	■	■	■	■	■	■	■	■			
DIN-Rail Mounting		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
LONMARK Device Class	SCC Generic	SCC Generic	SCC Generic	SPD[1]	SPD[1]	SPD[1]	SPD[1]	SPD[1]	SPD[1]	SPD[1]	SPD[1]	SPD[1]	SPD[1]	SPD[1]			
Inputs																	
Universal (Software Configurable)	4	6	6	10	10	12	12	12	12	12	12	16	16	16	12	12	12
0-20mA/4-20mA (external 249Ω Resistance)	■	■	■														
0-20mA/4-20mA (built-in 249Ω Resistance, Jumper Selectable)				■	■	■	■	■	■	■	■	■	■	■	■	■	■
50 Hz Pulse				■[2]	■[2]	■[2]	■[2]	■[2]	■[2]	■[2]	■[2]	■[2]	■[2]	■[2]			
Analog/Digital Converter (Bits)	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
EC-Smart-Vue Capability	4	4	4	12	12	12	12	12	12	12	12	12	12	12			
Wireless inputs[3]	18	24	24	28	28	28	28	28	28	28	28	28	28	28			
15VDC Power Supply	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Outputs																	
Universal (Analog)	2	3	3	8	8	12	4	12	4	12	4	12	12	12	12	12	0
Digital/Analog Converter (Bits)	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
0-20mA/4-20mA (Jumper Selectable)				■	■	■	■	■	■	■	■	■	■	■	■	■	
Digital (Triac 24 V AC)	4	5	5				8		8		8						
Output LED Status Indicator		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
HOA Switch								■	■				■			■	
Power Input																	
24 VAC	■																
24 VAC/VDC		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Power Status LED Indicators	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

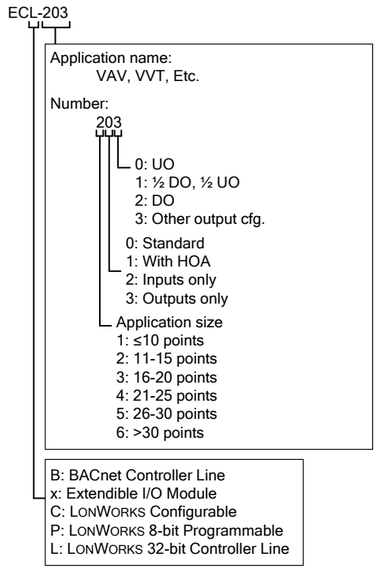
1. SPD: “Static Programmable Device” LONMARK Device Class.
2. The first four inputs are software configurable for pulse counting; 50 Hz maximum frequency.
3. All controllers are Open-to-Wireless™ ready. Available when an optional Wireless Receiver is connected to the controller. Some wireless sensors may use more than one wireless input from the controller.

	ECL-103	ECL-203	ECL-253	ECL-300	ECL-350	ECL-400	ECL-403	ECL-410	ECL-413	ECL-450	ECL-453	ECL-600	ECL-610	ECL-650	ECx-400	ECx-410	ECx-420
Programming – Configuration																	
EC-*gfx*Program	■	■	■	■	■	■	■	■	■	■	■	■	■	■			
Pre-Loaded Application																	
Communication																	
LonMark Certified	■	■	■	■	■	■	■	■	■	■	■	■	■	■			
LonWorks TP/FT-10	■	■	■	■	■	■	■	■	■	■	■	■	■	■			
Rx LED Indicators		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Tx LED Indicators		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Objects																	
Calendar Objects	1	1	1	2	2	2	2	2	2	2	2	2	2	2			
Schedule Objects	2	2	2	8	8	8	8	8	8	8	8	8	8	8			
Loop (PID)	8	8	8	30	30	30	30	30	30	30	30	30	30	30			
Constants																	
- Boolean	124	124	124	124	124	124	124	124	124	124	124	124	124	124			
- Enumeration	62	62	62	62	62	62	62	62	62	62	62	62	62	62			
- Numeric	56	56	56	56	56	56	56	56	56	56	56	56	56	56			
Variables																	
- Boolean	124	124	124	124	124	124	124	124	124	124	124	124	124	124			
- Enumeration	54	54	54	54	54	54	54	54	54	54	54	54	54	54			
- Numeric	56	56	56	56	56	56	56	56	56	56	56	56	56	56			
nciSetpoint	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Total Network Variables	170	176	176	161	161	171	171	171	171	171	171	254	254	254			
Network Variable Input (General Usage)																	
- NVI Changeable Type, Up to 31 Bytes[4]	50	50	50	35	35	35	35	35	35	35	35	35	35	35			
Network Variable Output (General Usage)																	
- NVO Changeable Type, 31 Bytes	50	50	50	35	35	35	35	35	35	35	35	35	35	35			
Hardware Input Network Variable																	
- nvoHwInput per Hardware Input	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■[5]	■[5]	■[5]
Hardware Output Network Variable																	
- nviHwOutput per Hardware Output	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■[5]	■[5]	■[5]
- nvoHwOutput per Hardware Output	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■[5]	■[5]	■[5]

4. Any type of Fan-In function is supported in combination with the “FOR” loop function.
5. These Network Variables are managed by the ECL-600, ECL-610, or ECL-650 controller (master).

Recommended Applications	ECL-103	ECL-203	ECL-253	ECL-300	ECL-350	ECL-400	ECL-403	ECL-410	ECL-413	ECL-450	ECL-453	ECL-600	ECL-610	ECL-650	ECx-400	ECx-410	ECx-420
2 pipe Fan Coil	■	■	■														
2 pipe Fan Coil with Changeover Sensor	■	■	■														
4 pipe Fan Coil	■	■	■														
Chilled Ceiling	■	■	■														
Heat Pump	■	■	■														
Unit Ventilator	■	■	■														
Small Roof Top		■	■														
Medium Roof Top		■	■				■		■		■						
Large Roof Top							■		■		■						
Small Air Handling Unit		■	■	■	■												
Medium Air Handling Unit				■	■	■	■	■	■	■	■	■	■	■			
Large Air Handling Unit				■	■	■	■	■	■	■	■	■	■	■			
Multi-Zones Application				■	■	■		■		■		■	■	■			
Chillers				■	■	■	■	■	■	■	■	■	■	■			
Boiler				■	■	■	■	■	■	■	■	■	■	■			
Cooling Tower				■	■	■	■	■	■	■	■	■	■	■			
Central Plant												■	■	■	■	■	■

Controller Naming Conventions:



Total Quality Commitment

All Distech Controls product lines are built to meet rigorous quality standards. Distech Controls is an ISO 9001 registered company.