

# APPENDIX B

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## Specifications and Ordering Information

### FUNCTIONAL SPECIFICATIONS

#### Memory

Nonvolatile memory retains contents when the HART Communicator is not powered.

Program and Device Descriptions:	12 MB (standard) 4 MB (optional)
Field Device Data:	2 KB
data pack 100 (optional):	32 KB removable nonvolatile memory

#### Power Supply

Five AA 1.5 V batteries (rechargeable NiCad battery pack optional).

#### Battery Charger Options

110/120 V ac, 50/60 Hz, U.S. plug  
220/230 V ac, 50 Hz, European plug  
220/230 V ac, 50 Hz, U.K. plug

#### Microprocessors

32-bit Motorola type 68331  
16-bit Motorola type 68HC705

#### Connections

Battery charger:	2.5 mm jack
Leadset:	Two 4 mm banana plugs
Memory Module:	26 pin, 0.1-in. Berg connector
Serial port:	PC connected through optional PC Communication Adapter

## PERFORMANCE SPECIFICATIONS

### Electromagnetic Compatibility (EMC)

EMC compliant only when the CE mark appears on both the keypad assembly and Memory Module.

### Humidity Limits

Operates in 0–95% relative humidity under noncondensing conditions over the entire operating range of 32 to 122 °F (0 to 50 °C).

### Hazardous Locations Certifications

CENELEC—Intrinsic Safety Certification

Factory Mutual (FM)—Intrinsic Safety Approval

Canadian Standards Association (CSA)—Intrinsic Safety Approval

### ISO 9001 Approval

The Model 275 HART Communicator is built by an ISO 9001 approved system.

### Operating Limits

32 to 122 °F (0 to 50 °C).

### Storage Limits

–4 to 158 °F (–20 to 70 °C).

## PHYSICAL SPECIFICATIONS

### Display

8-line liquid crystal display with 21-character line width (128 by 64 pixels).

### Keypad

25 large keys including six Action keys, a complete alphanumeric keypad, four software-defined function keys, ON/OFF, and cursor control keys; membrane design with tactile feedback.

### Weight

Approximately 3 lb. (1.4 kg) with NiCad battery pack.