

Emerson HART 475 Field Communicator

Tech Specs

Processor And Memory	
Microprocessor	80 MHz Hitachi® SH3
Memory Internal Flash	32 MB
System Card	1 GB secure digital card
RAM	32 MB
Physical	
Weight	Approximately 1.65 lb. (0.75kg) with battery
Display	1/4 VGA (240 by 320 pixels) color, 3.5 in. (8.9 cm) transfective display with touchscreen Anti-glare coated
Keypad	25 keys including 4 action keys, 12 alphanumeric keys, tab key, function key, backlight key, power key, and 4 cursor-control (arrow) keys; membrane design with tactile feedback
Power Supply / Charger	
Battery	Rechargeable Lithium-Ion power module
Battery Operating Time	20 hours – continuous use
	40 hours – typical use
	80 hours – standby mode
Battery Charger	Options Input voltage 100-240 VAC, 50-60 Hz
	Cables included with U.S., Europe, and U.K. plugs
Connection	
Battery Charger	Mini DIN 6-pin jack
HART and Fieldbus	Three 4mm banana jacks (one common to HART and Foundation Fieldbus)
IrDA Port	IrDA (Infrared Data Access) port supporting up to 115 Kbps
	±15 degrees recommended maximum angle from center line
	Approximately 18 in. (45.7 cm) recommended maximum distance
Bluetooth	Up to 32.8 ft. (10 m) communication distance
	Uses standard Windows drivers
	FCC, IC, and CE approvals
	Certified for use in over 60 countries
Environmental	
Usage	-10°C (14°F) to +50°C (122°F)
Battery	0% to 95% RH (non-condensing) for 0°C (32°F) to +50°C (122°F)
Charge	10°C (50°F) to +40°C (104°F)
Storage With Batteries	-20°C (-4°F) to +55°C (131°F)
Storage Without Batteries	-20°C (-4°F) to +60°C (140°F)
Enclosure Rating	IP51 (from front)
Shock	Tested to survive a 1-meter drop test onto concrete
Easy Upgrade Requirements	
Usage	PC with Internet access
	CD Rom drive
	IrDA port (or adapter) or Bluetooth (or adapter)

SD Card Reader (required for some upgrades)

Windows XP (SP2 or SP3), Windows Vista Business (SP1), or Windows 7