An optional gauge (lower right) in the 1968 Continental will help the driver plan ahead.

Is it really empty?

If you've ever driven a long stretch of highway with the fuel-gauge needle approaching empty and no gas station in sight, you'll appreciate a new electronic device that will be introduced as an option on the 1978 Continental Mark V.

Called Miles-to-Empty, the device uses integrated circuits and a digital display in the instrument cluster to show drivers how far they can travel before running out of gas—and when to fill the tank.

"We believe the Miles-to-Empty fuel warning system is a significant electronic advance in cars," said Eugene Karrer, general manager of the Ford Motor Co. electrical and electronics division.

After the car is started, the driver can obtain a miles-to-empty reading at any time by pushing a button on the display. The bright-orange figures normally remain lighted for several seconds. However, when the miles-to-empty number drops below 50, the display lights up automatically and remains on, serving as a low-fuel warning.

THE MILES-TO-EMPTY estimate is updated frequently, enabling the driver to keep tabs on his driving economy. Improving fuel economy is indicated if the miles-to-empty number remains the same or increases while the car is driven some distance. A rapidly decreasing number reflects declining driving economy.

The heart of the system is a large-scale integrated circuit that is less than a quarter of an inch square, which contains microscopic circuits with 3,600 transistors.

The circuit is the brain of an electronic processor that receives information from two sensors, one in the fuel tank sensing fuel level and one in the tansmission sensing vehicle speed.

The miles-to-empty estimate is based on how the car is operated. The electronic processor calculates mileage every minute. The processor compares the fuel-usage rate with that of the previous minute. If it has changed, the miles-to-empty estimate is updated.

Otherwise, the estimate decreases one mile for each mile driven.

THE CHANGES are small, made over a period of several minutes to avoid severe fluctuations that otherwise would be displayed during rapidly changing driving conditions, such as going from highway to city driving, hill-climbing or rapid acceleration or deceleration.

The digital display on the instrument panel is slightly larger than a matchbookThe entire Miles-to-Empty module is about 5 by 4 by 2.5 inches in size including the display, power supply, analog-to-digital converter, signal processor and decoder.

A gas-discharge type display was chosen because the bright orange figures can be read easily under all light conditions, from nightto bright sunlight.

876 Oldsmobile

CUTLASS Salon 1975, air, power windows, Deluxe interior, AM-FM stereo & track, $3000. 355-6139

DELTA 88, 1974, maroon with vinyl top, 4 door sedan, automatic transmission, power steering, brakes, air, push button radio, white wall tires, good condition, only $2,600. Call George Atkas. 425-2090

OLDSMOBILE 1977, wagon, loaded, 9000 miles, under-coated, new shelves color with wood, $5,500. 517-546-1987

CUTLASS SALON - 1975, 4 door, air, AM-FM, power seat, tilt wheel, 39,000 miles, $3000. 661-6307

CUSTOM, 1973, Cruiser, 9 passenger station wagon, very clean, loaded. Days, 644-2962. Evenings, 543-6825

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643-0070

ROYALE 88, 1975, radial tires, AM-FM stereo, power windows, rear defogger, body good condition, $2,000. 559-3420

CUTLASS S 1980, 2 door, 42,000 miles, size owner, FM stereo cassette, maintained excellent, $795. 476-6417

NINETY EIGHT 1971, 4 door, low mileage, air, stereo, Excellent condition, $1,300. After 5PM. 548-3004

DELTA ROYALE, 1980, full power, air, excellent running condition, $800. 647-4324

CUTLASS, 1973, power steering, brakes, air, radio stereo, low mileage, wife's car, $2250, or best offer. 668-1974

TORONADO 1976, tan, loaded. Mint condition. $6,600. 356-6338

REGENCY 1978, 2 door brougham, air, every available option, $6,400 or best offer. Mint condition. 641-7687. 852-8560

LUXURY sedan 98, 1980, air, power steering, brakes, seats, windows, cruise control system, asking $6,000. After 5P.M. 851-1407

CUTLASS S, 1976, low mileage, 2 door, bucket seats, air conditioned, console, $2000. 852-8400

CUTLASS 1971, 70,000 miles, power steering, 4 speed, power brakes, vinyl roof, air, Great condition, $1000. 348-7380

TORONADO 1976 Brougham, silver, loaded, asking $5,800. 477-3040

876 Oldsmobile

OLDS custom cruiser 1976, automatic, air, fully loaded, low mileage, excellent condition. 386-3440. 557-4564

878 Plymouth

DUSTER, 1974. Very clean. Excellent condition. Stick on floor, tape. $1,700. Art Moran Pontiac-GMC. Telegraph, North of 12 Mile. 353-9000

FURY, 1975 Station Wagon. Air. Power, rack, clock, radio, etc. Must sell. $2,750 best. 477-5420

FURY, 1970, good condition, air, power steering, brakes, $595. 425-8177

DUSTER, 1972, power steering, 6 automatic, 80,000 miles, good on gas, $900 or offer. 476-6473

GOLD DUSTER, 1973, vinyl roof, automatic, 3 cylinder, power steering, good mileage, $975 or best offer. 476-1910

CUDA 1973, 22,300 miles, air, automatic, power steering, power brakes, 318 V8, console, tachometer, no rust, $2,700. 542-2351

PLYMOUTH, 1972 sport suburban wagon, 9 passenger automatic, power steering, brakes air, amfm, loaded, clean, $1100. 464-8227

VOLARE Premier 1978, 4 door sedan, 318 with many options, $5750 945-8969.

ARROW, 1977, orange, 7000 miles, $3475. Great gas mileage. Being transferred. 363-9598

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1976 CORDOBA, Loaded $2995

1973 NEWPORT, Loaded, low mileage $995

1975 DUSTER, low mileage, air, ... $2,495

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PLYMOUTH FURY - 1972, automatic, power steering, good condition, clean, high mileage, $550. 476-6751

GRAN FURY, 1972, automatic 318, 44,000 miles, no rust, $1150. 525-2985

DUSTER 1970, blue, mechanically sound, good rubber, good body, tape deck, chrome wheels. 476-5386

GRAND FURY Sport Suburban 1975, 8 passenger, all options, Must sell, best offer. 553-6600. 645-2340

DUSTER - 1972, 30,000 miles, air, power steering, AM-FM stereo tape deck, etc. $2,000. 476-7852

GOLD DUSTER 1972, black over blue, power steering, power brakes, air, $950. 352-1575

STATION WAGON, 1971, Air, excellent condition, 56,000 miles, Best offer. Farmington. 355-0796

880 Pontiac

LEMANS, 1973. Automatic, power, factory air, $1,295. JEANNOTTE PONTIAC, Plymouth, Mich 453-2500

TRANS AM 1976, excellent condition, 82000 Ask for Dave. Days 373-9041. After 6PM. 273-8726

CATALINA 1969, 2 door, no rust, 3 new tires, runs great. $350. After 5 PM. 474-3175

BONNEVILLE 1968, hardtop sedan, small V-8, automatic, power steering, power brakes. New white side wall tires, vinyl top, no rust, 1 owner, many new parts & runs like new, $600. 1 year warranty. AUTO-LAND USA, 30545 Michigan Ave., Wayne. 728-3100

FIREBIRD TRANS AM, 1977, air, tilt, am-fm, hood decal, 5400 miles, $5675. 477-4785

GRAND PRIX 1972, Classic, triple black, loaded, Southern car, excellent condition, 453-3452

CATALINA, 1974, 2 door hardtop, air, rustproofed, automatic, power steering, and brakes, vinyl roof, radio, 39,000 miles. $1,750. Bill Brown Ford, 35000 Plymouth Rd. at Wayne Rd. 421-7000

PONTIAC CATALINA, 1973. 4 door, air conditioning, showroom new, low miles. Art Moran Pontiac-GMC, Telegraph, North of 12 Mile. 353-9000

CATALINA COUPE, 1973. Power steering and brakes, factory air conditioning, $2400. JEANNOTTE PONTIAC, Plymouth, Mich.453-2500

GRANDVILLE 1971, 4 door, 453 CID, automatic, full power, loaded, factory trailer towing package, low miles, excellent condition, no rust. 536-6750

880 Pontiac

GRAND PRIX, 1974. Fire engine red with white bucket seats and landau roof. Stereo, power windows and locks, rally wheels, low mileage lady owner. Art Moran Pontiac-GMC, Telegraph, North of 12 Mile. 353-9000

GRAND PRIX 1973, power steering, power brakes, power windows, air, am-fm stereo, tilt wheel, rally wheel. 547-2872

FIREBIRD 1976 Formula. Triple black. 9,300 miles. Loaded. $4,350. 435-6886

GRANDVILLE, 1975 Convertible. Loaded. Medium blue metallic. Call: 651-2212

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5170 Elizabeth Lake Rd
Pontiac

FIREBIRD 1973, formula 400, air, power steering, brakes, AM-FM, air, super sharp. $4,000 miles. Must sell. 538-4237

PONTIAC, 1977, Gran Prix, sharp, must sell, Before 2PM. 476-7118

GRAND PRIX SJ, 1977 Samod and all options, medium-light blue, cost $7400, asking $5400. 547-6966

LE MANS, 1973, power steering, power brakes, 350 V8, clean, good condition. $1300 or offer. 425-3300

SAFARI, 1977 nine passenger station wagon, loaded, Brentwood brown, buckskin interior, 12,000 miles, $6595. Call 9-4 P.M. 559-1023

LUXURY LeMans 1974, 50,000 miles, air, am-fm, automatic, power steering, power brakes. 625-6626

CATALINA 1963, very good condition, excellent transportation, $375. 651-8648

880 Pontiac

GRANDVILLE 1972, 4 door, hardtop, air, power steering, brakes, low miles, very clean, $1500. 647-4328

GRAND PRIX, 1975, AM-FM stereo, air, power windows, rear window defroster, first time on the market, $4295. Must sell. 362-0607

GRAND PRIX Classic, 1971, like new, 2 tone paint, many new parts, power windows, new exhaust-brakes, etc. $2,100 or best offer. 464-3483

LeMANS 1968, runs good, body in good shape, ask for Sherm. 641-5478

EXECUTIVE 1967, 400, power steering, brakes, air, runs good, $200. 464-0653

CATALINA 1971, 2 door hardtop, air conditioning, power steering, power brakes, radio, vinyl roof, limited glass, clean, $775. 527-1891

GRANDVILLE 1974, 4 door, air, 60/40 cloth, tilt, power windows, seats, trunk, perfect condition. 661-1258

FIREBIRD, 1976, Esprit, air, power steering & brakes, AM-FM stereo, Honeycomb wheels, $4400. 542-5896

PONTIAC 1970 Executive 4 door, good condition, $450. 721-1996

BONNEVILLE - 1974, 4 door hard top, air, AM-FM, full power, radials, low mileage, Sharp, $2795. 548-3196

FIREBIRD, 1975 Esprit 350 automatic. Loaded. 15,500 miles. Excellent condition. After 5PM. 334-4432

GRAND PRIX 1972. One owner, no damage, clean, $1995. 646-2969

GRAND SAFARI, 1973, 9 passenger station wagon, automatic, air, all power, deluxe interior, AM-FM stereo tape deck, luggage rack, cruise control, 60-40 seat, 1 owner, GM Executives wife's wagon. $2495. 646-5481

GRAND AM 1974 Excellent condition. Many extras. Must sell, make offer. 644-1584

ASTRE 1975, Hatchback, amfm radio, radials, power steering, good mileage, $1750. 625-1833

PONTIAC 1973, Catalina, one owner, air, $550. 557-3185

FIREBIRD, 1968, convertible, automatic, all power, good condition, low mileage, $995. 474-5349

FIREBIRD TRANS AM, 1977, low miles, air, automatic, stereo, tilt, cruise $5795. 781-5434

BONNEVILLE 1976, Brougham, loaded, low miles, sharp, best offer over $3,000. Call after 5 P.M. 525-1465

880 Pontiac

PONTIAC 1975, Firebird Esprit, stereo, air conditioning, automatic, silver with wine interior. Asking $3,000. 557-7081

GTO 1968, must sell, power steering-brakes, air, automatic, excellent condition, $975. 268-6535

LeMANS, 1973, Luxury, power steering & brakes, air conditioning, good condition. Best offer over $1750. 478-4777

FIREBIRD 1971, good condition. Must see to negotiate. For information call Ce 2-2642

BONNEVILLE 1977, Brougham, landed, custom top, Valencia interior, 8000 miles, $7800 car, must sell $6600. 649-1324

882 Thunderbird

T-BIRD, 1978, silver with black leather, loaded, 19,000 miles, sell immediately. $6295 or offer. Evenings. 851-2357

THUNDERBIRD, 1977, Air, am-fm stereo, power, wire wheel covers, black with burgundy interior. Under 5,000 miles Factory warranty till March, 1978, or 12,000 miles. $5,995. Bill Brown Ford, 35000 Plymouth Rd. at Wayne Rd. 421-7000

T-BIRD 1973, custom 3 door hardtop, automatic, full power, 36,000 actual miles, new radial tires, factory air, FM stereo, door locks & more. Mint condition inside & out. $2750. 1 year warranty. AUTO-LAND USA, 30545 Michigan Ave., Wayne. 728-3100

THUNDERBIRD, 1973. Loaded Special. $2,495. North Bros. 421-1276

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THUNDERBIRD 1977, 500 miles, showroom new, balance of factory warranty, loaded. List $7767; now $6945 477-4421

T BIRD 1968, Air, good tires, good motor. Needs body work. $300. 642-9658

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2 door hardtop, vinyl top, sun roof, air, automatic, radio, heater, white side walls, power. Specially priced for this weekend. $5,995

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9000 Telegraph
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T-BIRD 1973, yellow, white vinyl top, air conditioning, power windows, $3400, after 6 PM. 547-6387

T-BIRD 1973, excellent condition, call after 5PM. 281-1560

THUNDERBIRD 1973, White, decor trim, all power, stereo tape, new brakes & muffler, $2650. 421-1141

TB 1974, low miles, full power, loaded, Mint Condition. Must Sell this Weekend. $4,350. After 4PM 477-8019

T-BIRD, 1974, sharp, silver blue, low mileage, must see $4100. 525-3089

THUNDERBIRD 1974, full power, best offer, must sell 644-2323

882 Thunderbird

THUNDERBIRD 1973, triple white, excellent condition, new radials, $1,600. 821-6618

884 Volkswagen

VW, 1973. Low miles. Excellent condition. Must see. North Bros. 421-1276

VW, 1971, Square Back Wagon, excellent condition. Must sell best offer. 535-7607

VW 1970. Like new. Very good condition. $1,800. Call after 5 P.M. 228-3109

1976 SCIROCCO
Automatic, AM-FM stereo, alloy wheels, one year warranty, low mileage. 3 others in stock.

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884 Volkswagen

VW 1972, 411, automatic, 4 door, excellent condition, $1,875. 455-7062

VW 411 4 door, 1972, 46,000 miles, automatic, rear defogger, good heater, excellent. 349-8816

VOLKSWAGEN, 1966, rebuilt engine, needs little work. $175. 728-8625

1975 VW RABBIT
Automatic transmission, radial tires $2,695

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VOLKSWAGEN 1975 Scirocco AM-FM, 16000 miles. Very nice. 436-7023

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Bucket seats, sports console, automatic, V8, power steering, power brakes, power windows, vinyl roof, air conditioning, am-fm stereo, low mileage
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Buckets, console, power steering, power brakes, automatic, power windows, am-fm stereo, vinyl roof, air, sports coupe, J model, extra clean
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1973 OLDS CUSTOM CRUISER STATION WAGON
9 passenger, luggage rack, air, factory equipment, loaded, low mileage.
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1973 CUTLASS SUPREME
2 door hardtop, V-8, automatic, power steering, power brakes, radio, heater, white walls, factory air, vinyl roof, sporty!
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1975 OLDS CUTLASS SUPREME
Triple black, V-8 automatic, power steering and brakes, vinyl roof, factory air conditioning, am-fm stereo, extra sharp!
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1975 CHEVY MONTE CARLO SPORTS COUPE
V8, automatic, power steering, power brakes, radio, heater, white walls, vinyl roof, factory air, low mileage, winter ready!
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1975 BUICK ELECTRA 225
Loaded, 4 door sedan, low miles, showroom new.
SALE $4,295

1974 PLYMOUTH FURY III sports coupe
V-8 engine, automatic, power steering, power brakes, air conditioning, am-fm radio, vinyl roof, very low mileag
$2,495

1975 MERCURY COUGAR XR-7
Buckets, sports console, leather trim, V8, automatic, power steering, power brakes, power windows, vinyl roof, factory air, am-fm stereo, low mileage, like new!
$4,195

1973 OLDS 98 LUXURY COUPE
Air conditioning, stereo, vinyl roof, loaded, showroom new!
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1975 T-BIRD
Landau top, loaded with equipment
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1975 LINCOLN MARK IV
Low mileage, showroom new, loaded with all factory equipment, BLACK BEAUTY
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1974 MUSTANG
2 door hardtop, sport coupe, automatic, power steering, radio, heater, white-wall tires, good gas saver!
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2 door hardtop, V-8 engine, automatic, power steering, power brakes, power radio, heater, white-wall tires, vinyl roof, factory air conditioning, sharp! Low mileage.
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4 door hardtop, V8, automatic, powersteering, power brakes, am/fm, all vinyl roof, summer ready!
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1973 OLDS 88
4 door hardtop, V-8, automatic, power steering, power brakes, air conditioning, vinyl roof, radio, heater, white walls low mileage, sharp!
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Loaded with all factory options, 1/2 padded vinyl top, stereo, air
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1976 DELTA CRUISER STATION WAGON
V-8 engine, automatic, power steering and brakes, am-fm stereo, power door locks, luggage air
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Bucket seats, sports console, air conditioning, vinyl roof, sharp!
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