

# COOL-FIT® Easy Flow

## Features

- Backlit display
- Fluids and concentrations pre-calibrated
- High reliability
- Simple configuration
- Velocity from 0.1 m/s to 6 m/s (0.3 fps to 20 fps)
- Easy to use 6 button operation
- Battery life up to 1,000 hours
- Dust and moisture resistant
- Protected cover a rubber boot

## Description

The COOL-FIT® Easy Flow enables professional hydronic system technicians to balance the flow of water based coolants through a new or existing hydronic system quickly and easily.

A COOL-FIT® system includes the Model 6500 COOL-FIT® Easy Flow hand held monitor, and a simple paddlewheel flow sensor, each part sold separately.

## Applications

- Initial start up of hydronic secondary cooling systems
- Balancing hydronic secondary cooling systems

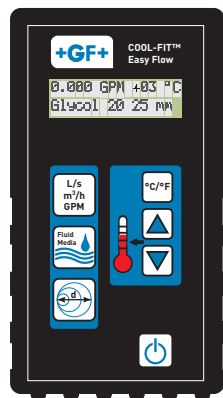
## System Overview

<b>Signet 6500 COOL-FIT Easy Flow</b>	
Signet COOL-FIT Flow Sensor (Sold Separately) 515    2536	
Installation Fittings, COOL-FIT or Signet (sold separately)	



## Dimensions

Including Boot  
 Length 21.5cm (8 3/4 in.)  
 Width 11.5cm (4 1/2 in.)  
 Depth 4.25cm (1 3/4 in.)



3-6500  
 159 001 537  
**COOL-FIT® Easy Flow**

## Specifications

### General

Instrument Temperature Accuracy  
 ± 1 °C  
 Cable Type: RJ 45  
 Cable Length:  
 Easy flow hand held monitor  
 cable 102.5 cm (36 in.)  
 Sensor cable 37 cm (14 1/2 in.)

### Power Requirements

Four AA batteries  
 Battery life up to 1,000 hours

### Units of Measurement Flow

L/s Litres per second  
 L/m Litres per minute  
 m3h Cubic Meters per hr  
 m/s Meters per second  
 GPM Gallons per minute  
 GPH Gallons per hour  
 fps Feet per second

### Fluid Media Pre-Programmed

Water  
 HC Marine  
 Propylene glycol 10%  
 Propylene glycol 20%  
 Propylene glycol 35%

### Max. Pressure/Temperature Rating

Operating Temperature Range:  
 -10 °C to +40 °C  
 Storage Temperature:  
 -40 °C to +40 °C

### Environmental Requirements

Dust and moisture resistant

**Shipping Weight** 1 kg, 2 lb 3 oz.

### Standards and Approvals

- CE
- RoHS compliant

## Flow Sensor Specifications

### General

Flow Rate Range:  
 • 6515: 0.3 to to 6 m/s (1 to 20 ft/s)  
 • 6536: 0.1 to to 6 m/s (0.3 to 20 ft/s)  
 Pipe Size Range:  
 DN15 to DN50 (0.5 to 2 in.)  
 Linearity: ±1% of full range @ 25 °C (77 °F)  
 Repeatability: ±0.5% of full range @ 25 °C (77 °F)

### Electrical (6515)

Frequency:  
 19.7 Hz per m/s nominal  
 (6 Hz per ft/s); sinusoidal  
 Amplitude:  
 3.3 V p/p per m/s nominal  
 (1 V p/p per ft/s)  
 Source Impedance: 8 KΩ

### Electrical (6536)

Frequency:  
 49 Hz per m/s nominal  
 (15 Hz per ft/s) nominal)  
 Supply Voltage: 3.3 to 24 VDC regulated  
 Supply Current: <1.5 mA @ 3.3 to 6 VDC  
 <20 mA @ 6 to 24 VDC

### Output Type:

Open collector transistor, sinking  
 Output Current: 10 mA max.

### Max. Pressure/Temperature Ratings

12.5 bar @ 20 °C, 1.7 bar @ 85 °C:  
 (180 psi @ 68 °F, 25 psi @ 185 °F)

### Operating Temperature:

-18 °C to 66 °C, (0 °F to 150 °F)

### Pipe Diameters, Fittings,

#### ABS COOL-FIT

Use 3-6515-P0 or 3-6536-P0 with:  
 25 mm, 32 mm, 40 mm, 50 mm, 63 mm  
 DN20, DN25, DN32, DN40, DN50  
 3/4 in, 1 in, 1 1/4 in, 1 1/2 in, 2 in

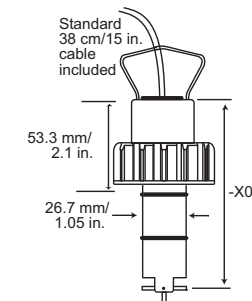
### Wetted Materials

- Sensor Body: Glass-filled PP (black)
- O-rings: FPM
- Rotor Pin: Titanium
- Rotor: Black PVDF

### Shipping Weight

3-6500 0.840 kg  
 6-6515-P0 0.454 kg 1.0 lb  
 3-2536-P0 0.454 kg 1.0 lb

## Standard Mount Sensor



Pipe Range:  
 .5 to 4 in. -X0 = 104 mm/4.1 in.

## Ordering Information

Mfr. Part No.	Code	Description
3-6500	<b>159 001 537</b>	COOL-FIT® Easy Flow Hand Held Monitor Kit
3-6515-P0	<b>159 001 535</b>	COOL-FIT® Rotor-X Flow Sensor, pipe range P0 is 1/2 to 4 in, or approximately 12 1/2 mm to 104 mm
3-6536-P0	<b>159 001 536</b>	COOL-FIT® high res low flow sensor, pipe range P0 is 1/2 to 4 in., or approximately 12 1/2 mm to 104 mm

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