

BRIGHT™

Compact Local Readout/Control Module for Mass Flow and Pressure Meters/Controllers

> Introduction

Bronkhorst High-Tech B.V., the European market leader in thermal Mass Flow Meters/Controllers and Electronic Pressure Controllers, has many years experience in designing and manufacturing precise and reliable measurement and control devices. With a wide range of instruments, Bronkhorst offers innovative solutions for many different applications in many different markets.

The instruments are made to customers' specification, in various styles, suitable for use in laboratory, industrial and hazardous areas, in such diverse applications as semiconductor and analytical installations, to name but two. The BRIGHT series compact Readout/Control module can be used for local indication and operation of this product line.

> Description

The objective for the development of the R/C-module was to offer a modern, economical alternative for peripheral Readout/Control electronics with integrated power supply. Furthermore it should comply with the demand for local indication of the actual flow-rate and/or totalised fluid consumption.

Bronkhorst designed the R/C-module, fulfilling these requirements, and more! The module not only allows reading of actual and total flow, simultaneously, but also features local operation, i.e. change of setpoint, counter reset, setting of engineering units, fluid name and tag number, etc. Four push-buttons at the right side of the device give access to a user-friendly menu. The bright 1.8" colour TFT-display is clearly visible over a wide angle.

The weatherproof (IP65) housing makes the module suitable for use in industrial areas and the module can be mounted on the instrument or, using the mounting kit, on an adjacent wall or panel and on the pipework.



> Features

- ◆ Bright, wide-angle display (TFT-technology)
- ◆ Indication of:
 - measured value (direct or %)
 - setpoint
 - totalised flow
 - fluid / tag number
 - control characteristics
 - fieldbus settings
- ◆ User-friendly operation
- ◆ Mounting on instrument, pipework or wall

> Specifications

- ◆ Suitable for connection to instruments with RS232 I/O-signals
- ◆ Required supply voltage 15...24 Vdc
- ◆ T-connector with 9-pin D-sockets for lab-style or 8-pin DIN sockets for industrial style instruments (1 male, 1 female), 4-pin DIN connection plus cable to R/C-module
- ◆ 1,8" colour TFT-display (128x160 pixels)
- ◆ 4 push buttons for menu operation

> Models

- ◆ Bright B1: IP40 R/C-module; mounting on instrument
- ◆ Bright B2: IP40 R/C-module; remote mounting
- ◆ Bright B3: IP65 R/C-module; mounting on instrument
- ◆ Bright B4: IP65 R/C-module; remote mounting

> Mounting kits



Example of pipe mounting by means of the mounting kit



IP65 BRIGHT Module mounted on an industrial Mass Flow Meter

> Mounting examples

B1	B2	B3	B4		Description
✓	✓	✓	✓		Mounting set
✓	✓	-	-		IP40 T-part
-	-	✓	✓		IP65 T-part
✓	✓	✓	✓		Short 0.3m cable
-	✓	-	✓		Extended mounting set
-	✓	-	✓		Long cable for distance mounting up to 1,0m

> Useful accessories

With Bronkhorst® "PiPS" Plug-in Power Supplies the instruments with local PS/Readout can easily be hooked up to the available power sockets.

