GHM GROUP - Honsberg | GHM Messtechnik GmbH
Tenter Weg 2-8 | 42897 Remscheid | GERMANY
Phone +49 2191 9672-0 | Fax +49 2191 9672-40
www.ghm-group.de | info@ghm-group.de

HONSBERG
◯ Member of GHM GROUP

Product Information

LABO-RRI-I / U / F / C

Note

The metering range end value can be programmed by the user via "teaching". Requirement for programmability must be stated when ordering, otherwise the device cannot be programmed. The ECI-1 device configurator with associated software is available as a convenient option for programming all parameters by PC, and for adjustment.
The teaching option is not available for the pulse output version.

Operation and programming

The teaching process can be carried out by the user as follows:
● The flow rate to be set is applied to the device.
● Apply an impulse of at least 0.5 seconds and max. 2 seconds duration to pin 2 (e.g. via a bridge to the supply voltage or a pulse from the PLC), in order to accept the measured value.
● When the teaching is complete, pin 2 should be connected to 0 V, so as to prevent unintended programming.

The devices have a yellow LED which flashes during the programming pulse. During operation, the LED serves as an indicator of operating voltage (for analog output) or of switching status (for frequency or pulse output).

In order to avoid the need to transit to an undesired operating status during the teach-in, the device can be provided ex-works with a teach-offset. The teach-offset point is added to the currently measured value before saving. The offset point can be positive or negative.

Example: The end of the metering range should be set to 80 %. However, only 60 % can be achieved without problem. In this case, the device would be ordered with a "teach-offset" of +20°%.. At a flow rate of 60 % in the process, teaching would then store a value of 80 %.

If necessary, a far greater number of parameters can also be programmed using the ECI-1 device configurator.

Ordering code

The basic device is ordered e.g. RRI-010xxx with electronics e.g. LABO-RRI-010xxx

	1.	2.	3.	4.	5.	6.	7.	8.	9.
RRI-	025	G	V	Q	160	V	10	K	E

	10.	11.	12.	
LABO-RRI-	I	P	S	120L/MIN H2O

◯=Option

1.	**Nominal width**		
	010	DN 10	
	025	DN 25	
2.	**Mechanical connection**		
	G	female thread	
	A	male thread	
	T	hose nozzle	
3.	**Connection material**		
	V	PVDF	
	M ◯	CW614N nickelled	
	K ◯	1.4305	
4.	**Housing material**		
	Q	PPS	
	V	PVDF	
	A ◯	PPS with transparent cover PSU	
5.	**Inwards flow drilling**		
	020	Ø 2.0	●
	050	Ø 5.0	●
	070	Ø 7.0	●
	080	Ø 8.0	●
	120	Ø12.0	●
	160	Ø16.0	●
6.	**Seal material**		
	V	FKM	
	E ◯	EPDM	
	N ◯	NBR	
7.	**Rotor**		
	10	with 10 clamps	
	02 ◯	with 2 clamps	
	05 ◯	with 5 clamps	
8.	**Material for clamps**		
	K	1.4310	
	T ◯	titanium	
	H ◯	Hastelloy®	
9.	**Connection for**		
	E	electronics	

10.	**Signal output**	
	I	current output 4..20 mA
	U	voltage output 0..10 V
	F	frequency output (see "Ordering information")
	C	pulse output (see "Ordering information")
11.	**Programming**	
	N	cannot be programmed (no teaching)
	P ◯	programmable (teaching possible)
12.	**Electrical connection**	
	S	for round plug connector M12x1, 4-pole