

# IN2 Series

Digital Mass Flow Controllers and Meters Electrical Adaptors  
DIP Switch Settings

User Guide

Celerity, Inc.  
915 Enterprise Boulevard  
Allen, TX 75013 USA  
T +1 972 359 4000  
F +1 972 359 4100

A331167 REV. 001 08/07



<b>_1.0 INSTRUCTIONS</b>	<b>1</b>
_1.1 SCOPE	1
_1.2 INFORMATION NEEDED BEFORE SETTING SWITCHES	1
_1.3 SWITCH FUNCTION AND LOCATION	1
_1.4 SETTINGS FOR CARD EDGE ADAPTOR P/N A330204001	1
_1.5 SETTINGS FOR 9-PIN D-SUBMINIATURE ADAPTOR P/N A330204002	1
_1.6 SETTINGS FOR 15-PIN D-SUBMINIATURE ADAPTOR P/N A330204003	2
_1.7 SETTINGS FOR 20-PIN "HONDA" ADAPTOR P/N A330204004	2
<b>_2.0 WARRANTY</b>	<b>4</b>

## 1.0 INSTRUCTIONS

### 1.1 SCOPE

These instructions give details of how the electrical DIP switches found on the electrical connector adaptors used on Celerity IN Digital Mass Flow Controllers (MFCs) and meters should be set prior to installation. Parts covered include Celerity part numbers A330204001, A330204002, A330204003, and A330204004.

### 1.2 INFORMATION NEEDED BEFORE SETTING SWITCHES

Prior to setting the adaptor's DIP switches, the user should have available the following information:

- Exact manufacturer name and model number of flow control product that is being replaced by IN Digital MFC.
- Use of nonstandard functions that previous flow control product provided, such as use of high/low alarms, ramped flow control, and etc.

### 1.3 SWITCH FUNCTION AND LOCATION

All IN Digital MFC electrical adaptors are designed to adapt the standard 15-pin high-density D-subminiature female connector on top of the IN Digital MFC to common connectors used on other flow control products from several manufacturers. Each adaptor has four (4) dual-inline package (DIP) switches on its bottom surface that must be set prior to installation of the adaptor on top of the IN DFC. To access these switches, turn the adaptor over so that the male 15-pin D-subminiature plug is facing as shown in Figure 1.

### 1.4 SETTINGS FOR CARD EDGE ADAPTOR P/N A330204001

If the existing flow control device in the process system uses the 20-pin card edge connectors, use Table 1 below to determine the proper settings for the DIP switches so that the IN Digital MFC functions correctly in the system:

**Table 1: DIP Switch Settings for Card Edge Connector**

Existing Flow Control Device Manufacturer and Product	Celerity® FC26xx or TN29xx Products	Aera® Model 780 or 980	Celerity Unit UFC-11xx or 16xx Product (except 1665)
Switch A Position	Ground	Ground	Ground
Switch B Position	"T"	"T"	"T"
Switch C Position	Press In	Valve Signal	Press In
Switch D Position	Switch C	Switch C	Switch C

*NOTE: This adaptor does not support special MFC functions such as soft-start and sensor output.*

### 1.5 SETTINGS FOR 9-PIN D-SUBMINIATURE ADAPTOR P/N A330204002

If the existing flow control device in the process system uses the 9-pin D-subminiature connectors, use Table 2 below to determine the proper settings for the DIP switches so that the IN DFC functions correctly in the system:

**Table 2: DIP Switch Settings for 9-Pin D-Subminiature Adaptor**

Existing Flow Control Device Manufacturer and Product	Celerity TN29xx	Celerity Unit UFC-11xx and 16xx (except 1665)	Horiba®/STEC® model 3xxx and 4xxx	Horiba/STEC model 74xx
Switch A Position	Ground	Ground	Ground	Valve Signal
Switch B Position	“T”	Valve Off	“T”	“T”
Switch C Position	Press In	Valve Signal	Press In	Press In
Switch D Position	Switch C	Switch C	Switch C	Switch C

**1.6 SETTINGS FOR 15-PIN D-SUBMINIATURE ADAPTOR P/N A330204003**

If the existing flow control device in the process system uses the 15-pin D-subminiature connectors, use Table 3 below to determine the proper settings for the DIP switches so that the IN Digital MFC functions correctly in the system:

**Table 3: DIP Switch Settings for 15-Pin D-Subminiature Adaptor**

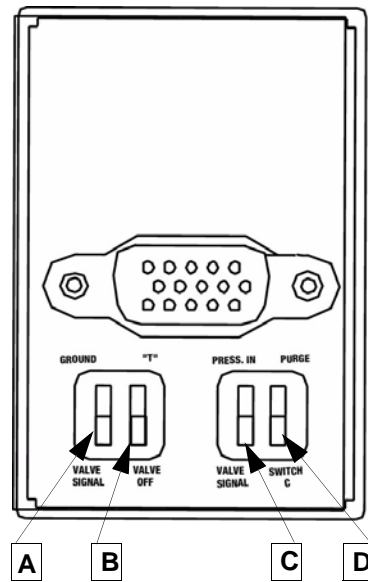
Existing Flow Control Device Manufacturer and Product	Celerity TN29xx	Celerity Unit UFC-11xx and 16xx (except 1665)
Switch A Position	Ground	Ground
Switch B Position	“T”	“T”
Switch C Position	Press In	Press In
Switch D Position	Switch C	Switch C

**1.7 SETTINGS FOR 20-PIN “HONDA” ADAPTOR P/N A330204004**

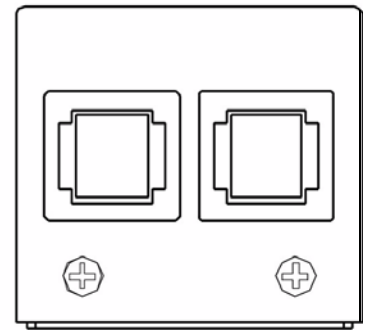
If the existing flow control device in the process system uses the 15-pin D-subminiature connectors, use Table 4 below to determine the proper settings for the DIP switches so that the IN DFC functions correctly in the system:

**Table 4: DIP Switch Settings for “Honda” Adaptor**

Existing Flow Control Device Manufacturer and Product	Celerity TN29xx	Aera Model 780 or 980
Switch A Position	Ground	Ground
Switch B Position	“T”	“T”
Switch C Position	Press In	Press In
Switch D Position	Switch C	Switch C



BOTTOM VIEW



RJ SIDE VIEW

Figure 1: Adaptor DIP Switch Layout

Product warranty information can be found on our Celerity website at [www.Celerity.net](http://www.Celerity.net). This information provides general warranty information, limitations, disclaimers, and applicable warranty periods according to product group.



CELERITY, INC.  
915 Enterprise Boulevard  
Allen, TX 75013 USA  
Telephone 972.359.4000  
Facsimile 972.359.4100  
[www.celerity.net](http://www.celerity.net)



For technical assistance, contact Celerity Technical Support at 972.359.4000.

Celerity is a trademark of Celerity, Inc. All other product or service names mentioned in this document may be trademarks of the companies with which they are associated. System descriptions are typical and subject to change without notice.

©2007 Celerity, Inc.

A331167 Rev.001

08/07