

TIP Validations

Start Date	2022-01-01 00:00:00
End Date	2023-06-30 23:59:59

Origin

The data is collected by the entity who manages the strategy for inter-modality within the metropolitan area of Porto. These datasets aggregate validations within the railway network, as well as validations within the road network, for the different operators arriving in the city of Porto.

Transformations

No transformations done.

Further information

In Porto, users of transit systems such as buses, trains and the metro need to validate their tickets when entering the transit system, **but not when they exit**. If the commute uses two transit modes, or two lines of the same mode (e.g. two metro lines), users need to validate their tickets two times at the entry points of each mode/line. For this reason, the files only contain one station or stop, which is where the user entered the vehicle/system.

There are no physical barriers stopping people from entering without validating a ticket.

There are two types of files:

- “Validações Ferrov” contains all validations of rail systems. These include regional and suburban trains, and Porto’s metro system.
- “Validações Rodov” contains all validations of road systems – buses.

Public transit systems in Porto use the “Andante” system which works in zones (see zone map [here](#)). Both types of files below contain the zone of the entry stop/station. You can see more information on how the ticketing system uses the zone in the [FAQ of the Andante system](#) (specifically question 23).

Data Dictionary

- Validações Ferrov

Name	Description	Type	Default	Example
Ano	Validation year	int	null	2022
Mês	Validation month	int	null	1
Dia	Validation day	int	null	3
Hora	Validation hour	int	null	16
Operador	Responsible Company	array	null	Metro do Porto
Est/Op	Entry Station Name	array	null	Casa da Música
Zona	Defined zone ID	array	null	PRT1
Validações	Number of Validations for this date, hour , operator and station	Int	null	1

- Validações Rodov

Name	Description	Type	Default	Example
Ano	Validation year	int	null	2022
Mês	Validation month	int	null	1

Dia	Validation day	int	null	3
Hora	Validation hour	int	null	16
Operador	Responsible Company	array	null	STCP
Linha_ao_Publico	BUS number	Int	null	903
Sentido	Direction	Int	null	1
Paragem	Entry Stop name	Array	null	AV.ALIADOS
Zona	Defined zone ID	Array	Null	PRT1
Validações	Number of Validations for this date, hour , operator and stop	Int	null	1