PRICEDISC

Updated: 24 May 2016

Use PRICEDISC to calculate the price of a discounted instrument using the discount rate. For zerocoupon bonds, use the PRICE function and enter a zero interest rate. The PRICEDISC formula is:

$$P = RV - DR \times RV \times \frac{DSM}{B}$$

Where:

В	=	Number of days in the year
DR	=	Discount Rate
DSM	=	Number of days from settlement date to maturity date
Р	=	Price per 100 par value
RV	=	Redemption Value

Syntax

```
Public Shared Function PRICEDISC(
ByVal Settlement As Date,
ByVal Maturity As Date,
ByVal Discount As Double,
ByVal Redemption As Double,
ByVal Basis As String,)
```

Arguments

Settlement

the settlement date of the bond. *Settlement* is an expression that returns a **Date**, or of a type that can be implicitly converted to **Date**.

Maturity

the maturity date of the bond. *Maturity* is an expression that returns a **Date**, or of a type that can be implicitly converted to **Date**.

Discount

the discount rate for the instrument. *Discount* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

Redemption

the redemption value of the instrument. *Redemption* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

Basis

the daycount convention associated with the bond. *Basis* is an expression that returns a **String**, or of a type that can be implicitly converted to **String**. Permissible values are:

	Basis	Day count basis	
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0, "BOND"	US (NASD) 30/360
1, "ACTUAL"	Actual/Actual
2, "A360"	Actual/360
3, "A365"	Actual/365
4, "30E/360 (ISDA)", "30E/360", "ISDA", "30E/360 ISDA", "EBOND"	European 30/360
5, "30/360", "30/360 ISDA", "GERMAN"	30/360 ISDA
7, "NL/365"	No Leap Year /365
8, "NL/360"	No Leap Year /360
9, "A/364"	Actual/364
21, "Actual/ISDA"	Actual/ISDA

Return Type

Double

Remarks

- If Settlement IS NULL then Settlement equals the current system processing date.
- If Basis is NULL then Basis = 0.
- If Basis is invalid an error is returned.

See Also

- BONDCF Cash flows for a bond paying regular periodic interest
- DIRTYPRICE Dirty price of a bond
- DIRTYYIELD Yield of a bond from the dirty price
- DIS Price, discount rate, and/or yield of a discount security
- DISC Discount rate
- DISFACTORS Factors for the price calculation of a discount security
- IAM Price and/or yield of a security paying interest at maturity
- IAMFACTORS Factors for the price calculation of a security paying interest at maturity
- ODDFPRICE Price of a bond with an odd first coupon
- ODDFYIELD Yield of a bond with an odd first coupon
- ODDLPRICE Price of a bond with an odd last coupon
- ODDLYIELD Yield of a bond with an odd last coupon
- OFC Calculate the price and/or yield of a bond with an odd first coupon using the ODDFPRICE equation
- OFCFACTORS Returns the components of the ODDFPRICE equation
- OFL Calculate the price and/or yield of a bond with an odd first and an odd last coupon using the OFLPRICE equation
- OFLFACTORS Returns the components of the OFLPRICE equation
- OFLPRICE Calculate the price of a security with an odd first and odd last period
- OFLYIELD Calculate the yield of a security with an odd first and odd last period
- OLC Calculate the price and/or yield of a bond with an odd last coupon using the ODDLPRICE equation

- OLCFACTORS Returns the components of the ODDLPRICE equation
- PRICE Price of a security paying regular periodic interest
- PRICEACT Price of a bond where coupon amounts are based on number of days in the coupon period
- PRICEACTV Cash flows and discount factors for a bond where coupon amounts are based on number of days in the coupon period
- PRICEFR Price of a bond with forced redemptions
- PRICEMAT Price of an interest-at-maturity security
- PRICESTEP Price of a security with step-up rates
- RPI Calculate the price and/or yield of a bond with regular periodic coupons
- RPIFACTORS Factors for the calculation of the price of a bond that pays regular periodic interest
- TBILLEQ Bond equivalent yield of a Treasury Bill
- TBILLPRICE Price of a Treasury Bill
- TBILLYIELD Yield of a Treasury Bill
- YIELD Yield of a bond paying regular periodic interest
- YIELDACT Yield of a bond where coupon amounts are based on number of days in the coupon period
- YIELDDISC Yield on a discount security
- YIELDFR Yield of a bond with forced redemptions
- YIELDMAT Yield on an interest-at-maturity security
- YIELDSTEP Yield of a security with step-up rates